

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3015

ATTENTION : Mohammad Ahmed



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	13
9) QC Data Summary For SVOCMS Group5	15
9.1) Deuterated Monitoring Compound Summary	16
9.2) LCS/LCSD Summary	17
9.3) Method Blank Summary	19
9.4) GS/MS Tune Summary	20
9.5) Internal Standard Area and RT Summary	23
10) Sample Data	27
10.1) WP0925-RR-PAH-WP	28
10.2) WP0925-RR-PAH-WPDL	48
11) Calibration Data Summary	68
11.1) Initial Calibration Data	69
11.1.1) BN092325	69
11.2) Continued Calibration Data	253
11.2.1) BN037871.D	253
11.2.2) BN037883.D	279
12) QC Sample Data	305
12.1) Tune Raw Data	306
12.2) Method Blank Data	318
12.3) LCS Data	329
12.4) LCSD Data	354
13) Manual Integration	379
14) Analytical Runlogs	382
15) Extraction Logs	391
15.1) PB169712.pdf	391
15.2) PB169712IC.pdf	393
16) Standard Prep Logs	394
17) Shipping Document	455

Table Of Contents for Q3015

17.1) Chain Of Custody

456

17.2) Lab Certificate

459

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3015-01
Q3015-02
Q3015-03
Q3015-04
Q3015-05
Q3015-06
Q3015-07
Q3015-08
Q3015-09
Q3015-10
Q3015-11
Q3015-12
Q3015-13
Q3015-14
Q3015-15
Q3015-16
Q3015-17
Q3015-18
Q3015-19
Q3015-20
Q3015-21
Q3015-22

Client Sample Number

WP0925-PT-VOA-WP
WP0925-PT-VOA-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-BN-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-ACIDS-WP
WP0925-PT-PEST-WP
WP0925-PT-PEST-WP
WP0925-PT-CHLR-WP
WP0925-PT-CHLR-WP
WP0925-PT-TXP-WP
WP0925-PT-TXP-WP
WP0925-PT-PCBW-WP
WP0925-PT-PCBW-WP
WP0925-PT-HERB-WP
WP0925-RR-GAS-WP
WP0925-RR-DIES-WP
WP0925-RR-8011-WP
WP0925-RR-PAH-WP
WP0925-RR-TRIAZINE-WP

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Order ID # Q3015

Test Name: SVOCMS Group5

A. Number of Samples and Date of Receipt:

1 Water sample was received on 09/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group5. This data package contains results for SVOCMS Group5.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOCMS Group5 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for WP0925-RR-PAH-WPDL [2-Fluorobiphenyl - 252%, Nitrobenzene-d5 - 247% and Terphenyl-d14 - 270%], Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Method 8270-SIM-BN092325.M for 4,6-Dinitro-2-methylphenol and This is passing on Quadratic regression.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample WP0925-RR-PAH-WP was diluted due to high concentration.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3015

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The %RSD is greater than 20% in the Method 8270-SIM-BN092325.M for 4,6-Dinitro- 2-methylphenol and This is passing on Quadratic regression.			
	The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries were met for all analysis except for WP0925-RR-PAH-WPDL [2-Fluorobiphenyl - 252%, Nitrobenzene-d5 - 247% and Terphenyl-d14 - 270%],Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all compounds.			
	The Blank Spike Duplicate met requirements for all compounds.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY
(CONTINUED)

		NA	NO	YES
10.	Extraction Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

Sample WP0925-RR-PAH-WP was diluted due to high concentration.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/13/2025

LAB CHRONICLE

OrderID:	Q3015	OrderDate:	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Waste Water PT
Contact:	Mohammad Ahmed	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-03	WP0925-PT-BN-WP	Water			09/02/25			09/04/25
			SVOCMS Group1	8270E		09/17/25	09/17/25	
Q3015-03DL	WP0925-PT-BN-WPDL	Water			09/02/25			09/04/25
			SVOCMS Group1	8270E		09/17/25	09/17/25	
Q3015-05	WP0925-PT-BN-WP	Water			09/02/25			09/04/25
			SVOCMS Group3	8270-Modified		09/16/25	09/24/25	
Q3015-05DL	WP0925-PT-BN-WPDL	Water			09/02/25			09/04/25
			SVOCMS Group3	8270-Modified		09/16/25	09/24/25	
Q3015-06	WP0925-PT-ACIDS-W P	Water			09/02/25			09/04/25
			SVOCMS Group2	8270E		09/17/25	09/18/25	
Q3015-06DL	WP0925-PT-ACIDS-W PDL	Water			09/02/25			09/04/25
			SVOCMS Group2	8270E		09/17/25	09/18/25	
Q3015-08	WP0925-PT-ACIDS-W P	Water			09/02/25			09/04/25
			SVOCMS Group4	8270-Modified		09/16/25	09/24/25	
Q3015-08DL	WP0925-PT-ACIDS-W PDL	Water			09/02/25			09/04/25
			SVOCMS Group4	8270-Modified		09/16/25	09/24/25	
Q3015-21	WP0925-RR-PAH-WP	Water			09/02/25			09/04/25
			SVOCMS Group5	8270-Modified		09/16/25	09/24/25	
Q3015-21DL	WP0925-RR-PAH-WP DL	Water			09/02/25			09/04/25
			SVOCMS Group5	8270-Modified		09/16/25	09/24/25	

LAB CHRONICLE

Q3015-22	WP0925-RR-TRIAZIN E-WP	Water		09/05/25		09/09/25
			SVOCMS Group6	8270E	09/17/25	09/17/25

Hit Summary Sheet SW-846

SDG No.: Q3015
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WP0925-RR-PAH-WP							
Q3015-21	WP0925-RR-PAH-WP	WATER Naphthalene	3.000		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER 2-Methylnaphthalene	5.700	E	0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Acenaphthylene	16.000	E	0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Acenaphthene	3.600		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Fluorene	4.700		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Phenanthrene	1.900		0.03	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Anthracene	2.600		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Fluoranthene	1.200		0.03	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Pyrene	4.900		0.03	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Benzo(a)anthracene	3.100		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Chrysene	5.100	E	0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Benzo(b)fluoranthene	2.600		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Benzo(k)fluoranthene	2.600		0.05	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Benzo(a)pyrene	2.000		0.04	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Indeno(1,2,3-cd)pyrene	1.900		0.05	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Dibenzo(a,h)anthracene	4.400		0.05	0.1	ug/L
Q3015-21	WP0925-RR-PAH-WP	WATER Benzo(g,h,i)perylene	4.200		0.04	0.1	ug/L

Total Svoc :

69.50

Total Concentration:

69.50

Client ID : WP0925-RR-PAH-WPDL

Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Naphthalene	2.700	D	0.4	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER 2-Methylnaphthalene	4.800	D	0.42	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Acenaphthylene	12.300	D	0.38	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Acenaphthene	3.000	D	0.38	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Fluorene	3.900	D	0.38	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Phenanthrene	1.600	D	0.34	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Anthracene	2.000	D	0.36	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Fluoranthene	0.990	JD	0.34	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Pyrene	4.400	D	0.31	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Benzo(a)anthracene	2.700	D	0.36	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Chrysene	4.600	D	0.37	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Benzo(b)fluoranthene	2.100	D	0.35	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Benzo(k)fluoranthene	2.100	D	0.5	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Benzo(a)pyrene	1.700	D	0.42	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Indeno(1,2,3-cd)pyrene	1.600	D	0.46	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Dibenzo(a,h)anthracene	3.600	D	0.47	1	ug/L
Q3015-21DL	WP0925-RR-PAH-WPDL	WATER Benzo(g,h,i)perylene	3.500	D	0.42	1	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q3015
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Svoc :		57.59			
		Total Concentration:		57.59			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169712BL	PB169712BL	2-Methylnaphthalene-d10	0.4	0.32	81		20	139
		Fluoranthene-d10	0.4	0.36	89		54	157
		Nitrobenzene-d5	0.4	0.38	95		27	154
		2-Fluorobiphenyl	0.4	0.39	97		30	155
		Terphenyl-d14	0.4	0.41	101		54	175
PB169712BS	PB169712BS	2-Methylnaphthalene-d10	0.4	0.35	88		20	139
		Fluoranthene-d10	0.4	0.34	86		54	157
		Nitrobenzene-d5	0.4	0.38	95		27	154
		2-Fluorobiphenyl	0.4	0.39	98		30	155
		Terphenyl-d14	0.4	0.40	100		54	175
PB169712BSD	PB169712BSD	2-Methylnaphthalene-d10	0.4	0.35	87		20	139
		Fluoranthene-d10	0.4	0.32	81		54	157
		Nitrobenzene-d5	0.4	0.39	97		27	154
		2-Fluorobiphenyl	0.4	0.40	99		30	155
		Terphenyl-d14	0.4	0.43	108		54	175
Q3015-21	WP0925-RR-PAH-WP	2-Methylnaphthalene-d10	0.4	0.43	108		20	139
		Fluoranthene-d10	0.4	0.46	114		54	157
		Nitrobenzene-d5	0.4	0.47	118		27	154
		2-Fluorobiphenyl	0.4	0.47	118		30	155
		Terphenyl-d14	0.4	0.45	112		54	175
Q3015-21DL	WP0925-RR-PAH-WPDL	2-Methylnaphthalene-d10	0.4	0.39	97		20	139
		Fluoranthene-d10	0.4	0.40	100		54	157
		Nitrobenzene-d5	0.4	0.99	247	*	27	154
		2-Fluorobiphenyl	0.4	1.01	252	*	30	155
		Terphenyl-d14	0.4	1.08	270	*	54	175

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3015</u>	Analytical Method: <u>8270-Modified</u>
Client: <u>Alliance Technical Group, LLC - Newark</u>	DataFile: <u>BN037885.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169712BS	Naphthalene	0.4	0.36	ug/L	90				67	120		
	2-Methylnaphthalene	0.4	0.31	ug/L	78				50	122		
	Acenaphthylene	0.4	0.39	ug/L	98				60	119		
	Acenaphthene	0.4	0.35	ug/L	88				65	119		
	Fluorene	0.4	0.36	ug/L	90				58	122		
	Phenanthrene	0.4	0.36	ug/L	90				65	117		
	Anthracene	0.4	0.37	ug/L	93				57	118		
	Fluoranthene	0.4	0.34	ug/L	85				53	126		
	Pyrene	0.4	0.38	ug/L	95				54	124		
	Benzo(a)anthracene	0.4	0.38	ug/L	95				54	130		
	Chrysene	0.4	0.39	ug/L	98				64	126		
	Benzo(b)fluoranthene	0.4	0.37	ug/L	93				65	121		
	Benzo(k)fluoranthene	0.4	0.37	ug/L	93				72	119		
	Benzo(a)pyrene	0.4	0.39	ug/L	98				68	120		
	Indeno(1,2,3-cd)pyrene	0.4	0.37	ug/L	93				70	127		
	Dibenz(a,h)anthracene	0.4	0.36	ug/L	90				65	121		
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93				76	117		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: <u>Q3015</u>	Analytical Method: <u>8270-Modified</u>
Client: <u>Alliance Technical Group, LLC - Newark</u>	DataFile: <u>BN037888.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169712BSD	Naphthalene	0.4	0.36	ug/L	90	3			67	120		20
	2-Methylnaphthalene	0.4	0.31	ug/L	78	3			50	122		20
	Acenaphthylene	0.4	0.39	ug/L	98	0			60	119		20
	Acenaphthene	0.4	0.35	ug/L	88	3			65	119		20
	Fluorene	0.4	0.36	ug/L	90	3			58	122		20
	Phenanthrene	0.4	0.36	ug/L	90	3			65	117		20
	Anthracene	0.4	0.37	ug/L	93	6			57	118		20
	Fluoranthene	0.4	0.32	ug/L	80	10			53	126		20
	Pyrene	0.4	0.42	ug/L	105	2			54	124		20
	Benzo(a)anthracene	0.4	0.37	ug/L	93	0			54	130		20
	Chrysene	0.4	0.39	ug/L	98	5			64	126		20
	Benzo(b)fluoranthene	0.4	0.39	ug/L	98	3			65	121		20
	Benzo(k)fluoranthene	0.4	0.38	ug/L	95	5			72	119		20
	Benzo(a)pyrene	0.4	0.39	ug/L	98	3			68	120		20
	Indeno(1,2,3-cd)pyrene	0.4	0.35	ug/L	88	0			70	127		20
	Dibenz(a,h)anthracene	0.4	0.36	ug/L	90	3			65	121		20
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93	0			76	117		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169712BL

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3015

Lab File ID: BN037872.D

Lab Sample ID: PB169712BL

Instrument ID: BNA_N

Date Extracted: 09/16/2025

Matrix: (soil/water) Water

Date Analyzed: 09/24/2025

Level: (low/med) LOW

Time Analyzed: 10:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WP0925-RR-PAH-WP	Q3015-21	BN037875.D	09/24/2025
PB169712BS	PB169712BS	BN037885.D	09/25/2025
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025

COMMENTS: _____



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3015
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037870.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3015
DFTPP Injection Date: 09/24/2025
DFTPP Injection Time: 09:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	79.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037871.D	09/24/2025	09:54
PB169712BL	PB169712BL	BN037872.D	09/24/2025	10:32
WP0925-RR-PAH-WP	Q3015-21	BN037875.D	09/24/2025	14:12
WP0925-RR-PAH-WPDL	Q3015-21DL	BN037876.D	09/24/2025	15:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037882.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3015
DFTPP Injection Date: 09/25/2025
DFTPP Injection Time: 10:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	81.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037883.D	09/25/2025	11:31
PB169712BS	PB169712BS	BN037885.D	09/25/2025	12:44
PB169712BSD	PB169712BSD	BN037888.D	09/25/2025	14:34

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3015

Client ID : SSTDCCC0.4

Date Analyzed: 09/24/2025

Lab File ID: BN037871.D

Time Analyzed: 09:54

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	6027	7.818	16875	10.63	8790	14.47
UPPER LIMIT	12054	8.318	33750	11.126	17580	14.973
LOWER LIMIT	3013.5	7.318	8437.5	10.126	4395	13.973
EPA SAMPLE NO.						
01 PB169712BL	6892	7.83	18348	10.63	8435	14.47
02 WP0925-RR-PAH-WP	5191	7.83	14257	10.63	7470	14.47
03 WP0925-RR-PAH-WPDL	5423	7.83	15340	10.64	7909	14.48

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3015

Client ID: SSTDCCC0.4

Date Analyzed: 09/24/2025

Lab File ID: BN037871.D

Time Analyzed: 09:54

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	17707	17.223	15660	21.402	14846	23.735
UPPER LIMIT	35414	17.723	31320	21.902	29692	24.235
LOWER LIMIT	8853.5	16.723	7830	20.902	7423	23.235
EPA SAMPLE NO.						
01 PB169712BL	16554	17.22	13474	21.40	12150	23.73
02 WP0925-RR-PAH-WP	14151	17.22	14100	21.40	11154	23.74
03 WP0925-RR-PAH-WPDL	15562	17.22	13258	21.41	12068	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3015

Client ID : SSTDCCC0.4

Date Analyzed: 09/25/2025

Lab File ID: BN037883.D

Time Analyzed: 11:31

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5686	7.818	16943	10.63	8938	14.47
UPPER LIMIT	11372	8.318	33886	11.126	17876	14.973
LOWER LIMIT	2843	7.318	8471.5	10.126	4469	13.973
EPA SAMPLE NO.						
01 PB169712BS	7082	7.82	19552	10.63	9660	14.47
02 PB169712BSD	6836	7.83	18512	10.63	8848	14.47

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3015

Client ID: SSTDCCC0.4

Date Analyzed: 09/25/2025

Lab File ID: BN037883.D

Time Analyzed: 11:31

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	18224	17.223	15951	21.402	15181	23.73
UPPER LIMIT	36448	17.723	31902	21.902	30362	24.23
LOWER LIMIT	9112	16.723	7975.5	20.902	7590.5	23.23
EPA SAMPLE NO.						
01 PB169712BS	19122	17.22	15460	21.40	13073	23.73
02 PB169712BSD	16966	17.22	11857	21.40	9036	23.74

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-RR-PAH-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037875.D	1	09/16/25 09:39	09/24/25 14:12	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	3.00		0.040	0.10	ug/L
91-57-6	2-Methylnaphthalene	5.70	E	0.040	0.10	ug/L
208-96-8	Acenaphthylene	16.0	E	0.040	0.10	ug/L
83-32-9	Acenaphthene	3.60		0.040	0.10	ug/L
86-73-7	Fluorene	4.70		0.040	0.10	ug/L
85-01-8	Phenanthrene	1.90		0.030	0.10	ug/L
120-12-7	Anthracene	2.60		0.040	0.10	ug/L
206-44-0	Fluoranthene	1.20		0.030	0.10	ug/L
129-00-0	Pyrene	4.90		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	3.10		0.040	0.10	ug/L
218-01-9	Chrysene	5.10	E	0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	2.60		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	2.60		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	2.00		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.90		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	4.40		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	4.20		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.43		20 - 139	108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		54 - 157	114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47		27 - 154	118%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47		30 - 155	118%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		54 - 175	112%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	5190	7.826			
1146-65-2	Naphthalene-d8	14300	10.626			
15067-26-2	Acenaphthene-d10	7470	14.473			
1517-22-2	Phenanthrene-d10	14200	17.223			
1719-03-5	Chrysene-d12	14100	21.402			

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-RR-PAH-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-21	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037875.D	1	09/16/25 09:39	09/24/25 14:12	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	11200	23.736			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037875.D
 Acq On : 24 Sep 2025 14:12
 Operator : RC/JU
 Sample : Q3015-21
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WP

Quant Time: Sep 24 14:48:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

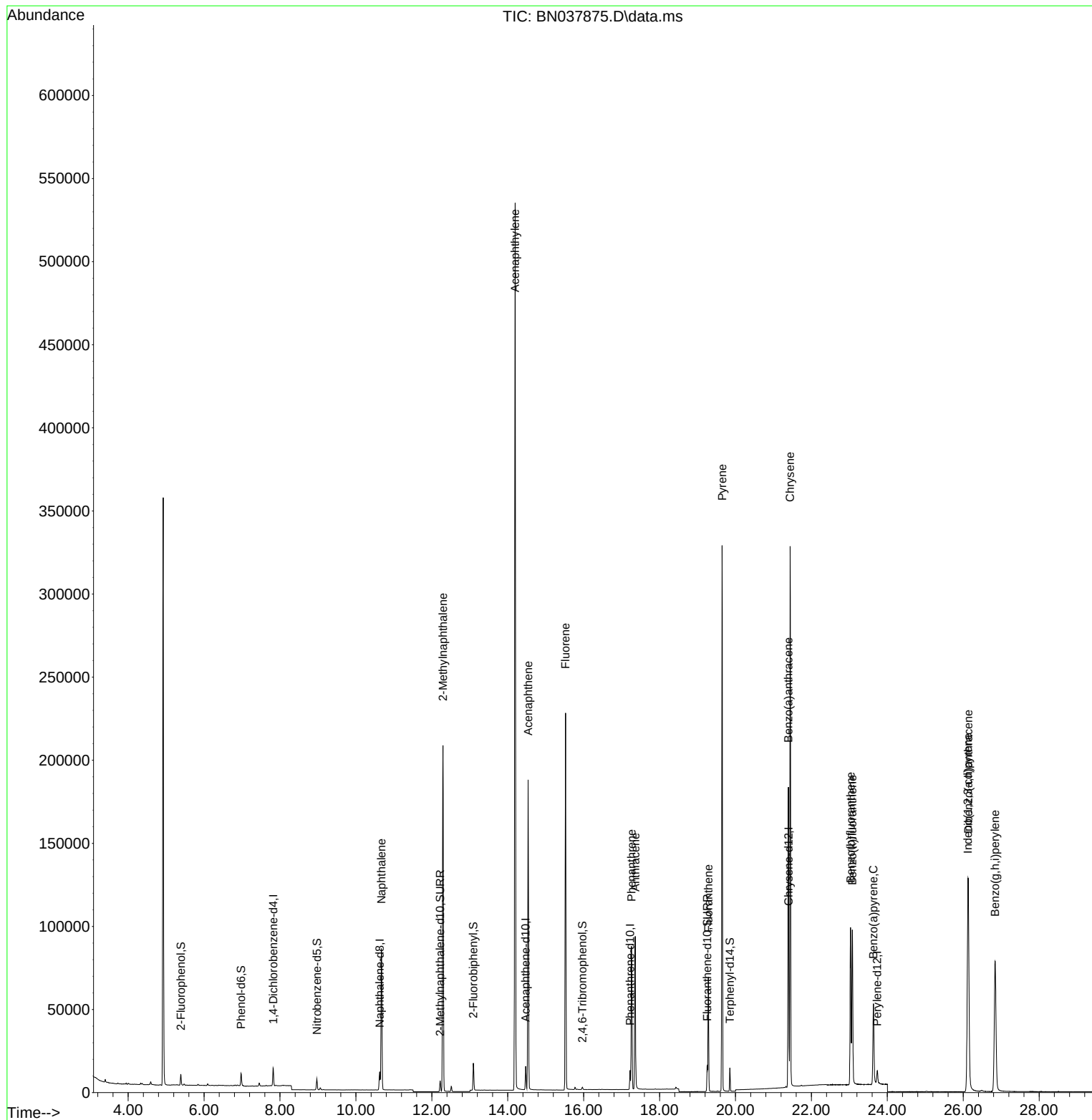
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5191	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14257	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7470	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	14151	0.400	ng	0.00
29) Chrysene-d12	21.402	240	14100	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	11154	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5183	0.438	ng	0.00
5) Phenol-d6	6.973	99	6784	0.436	ng	0.00
8) Nitrobenzene-d5	8.971	82	5155	0.474	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8521	0.430	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	892	0.315	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14475	0.473	ng	0.00
27) Fluoranthene-d10	19.257	212	16255	0.457	ng	0.00
31) Terphenyl-d14	19.852	244	12604	0.449	ng	0.00
Target Compounds						
9) Naphthalene	10.669	128	116901	2.976	ng	99
12) 2-Methylnaphthalene	12.294	142	145103	5.656	ng	98
16) Acenaphthylene	14.195	152	543865	16.035	ng	100
17) Acenaphthene	14.537	154	86337	3.573	ng	98
18) Fluorene	15.523	166	136092	4.656	ng	100
25) Phenanthrene	17.260	178	87363	1.876	ng	99
26) Anthracene	17.360	178	103041	2.551	ng	99
28) Fluoranthene	19.285	202	60612	1.182	ng	100
30) Pyrene	19.648	202	275385	4.947	ng	99
32) Benzo(a)anthracene	21.393	228	151244	3.069	ng	98
33) Chrysene	21.438	228	272271	5.109	ng	99
36) Indeno(1,2,3-cd)pyrene	26.121	276	98747	1.938	ng	# 91
37) Benzo(b)fluoranthene	23.031	252	123046	2.558	ng	# 94
38) Benzo(k)fluoranthene	23.078	252	124587	2.574	ng	# 93
39) Benzo(a)pyrene	23.633	252	76254	2.004	ng	# 90
40) Dibenzo(a,h)anthracene	26.130	278	173638	4.363	ng	96
41) Benzo(g,h,i)perylene	26.838	276	173660	4.154	ng	97

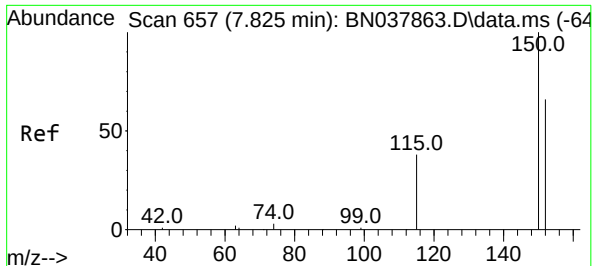
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037875.D
Acq On : 24 Sep 2025 14:12
Operator : RC/JU
Sample : Q3015-21
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

Quant Time: Sep 24 14:48:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

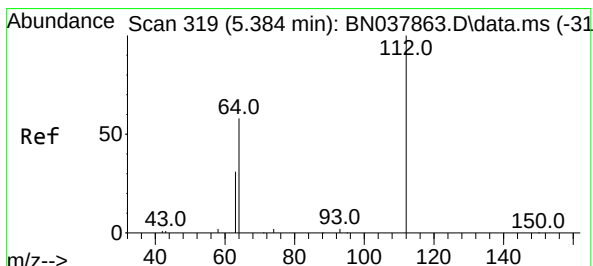
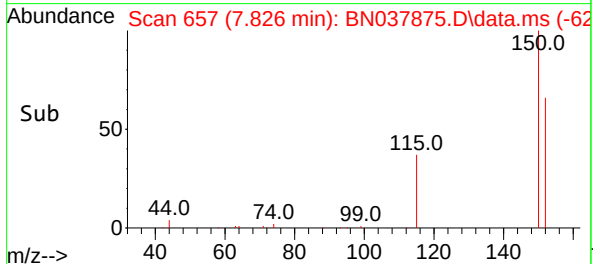
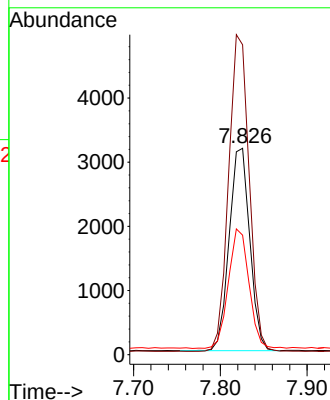
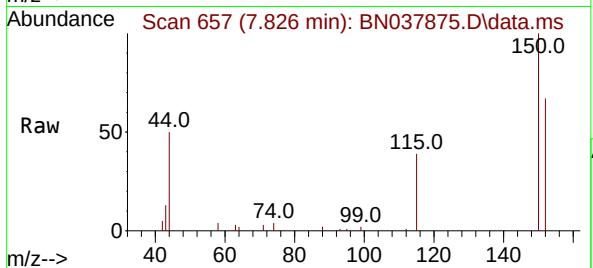




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

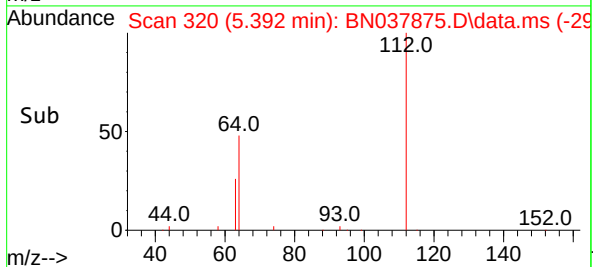
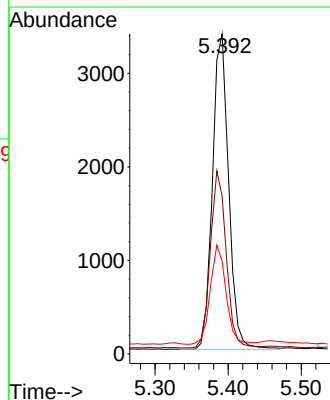
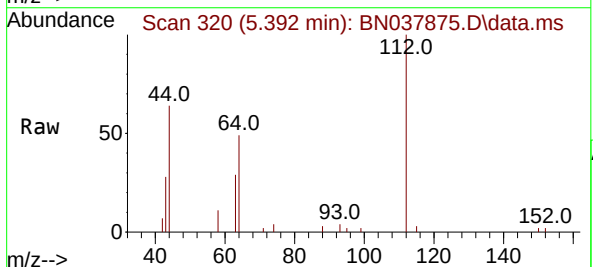
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

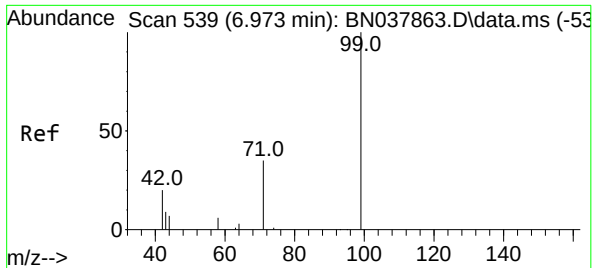
Tgt Ion:152 Resp: 5191
Ion Ratio Lower Upper
152 100
150 150.2 121.0 181.4
115 58.0 47.4 71.0



#4
2-Fluorophenol
Concen: 0.438 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:112 Resp: 5183
Ion Ratio Lower Upper
112 100
64 55.0 44.6 66.8
63 30.6 24.9 37.3

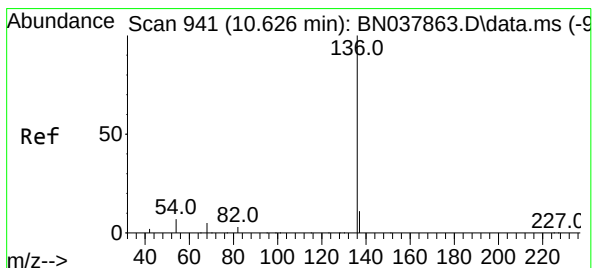
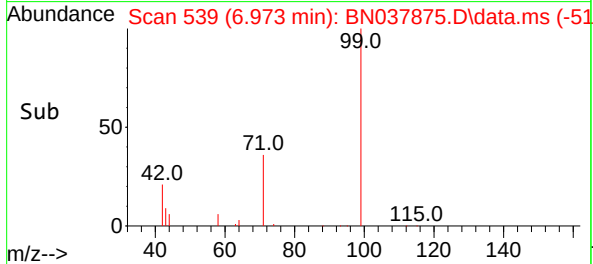
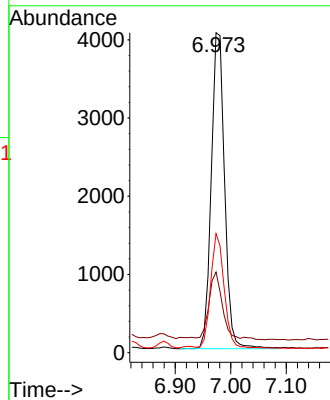
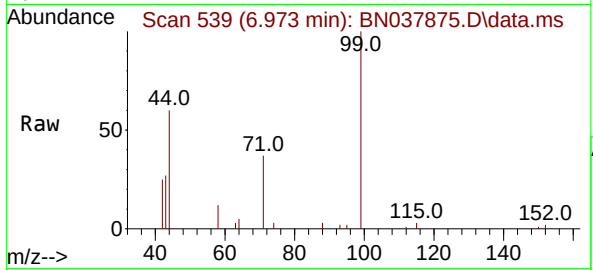




#5
Phenol-d6
Concen: 0.436 ng
RT: 6.973 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

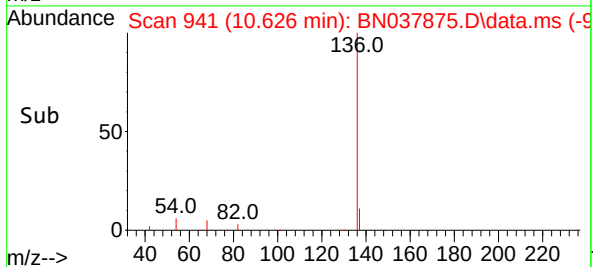
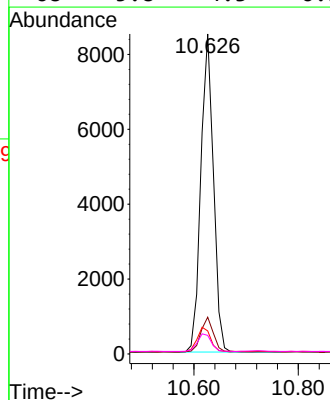
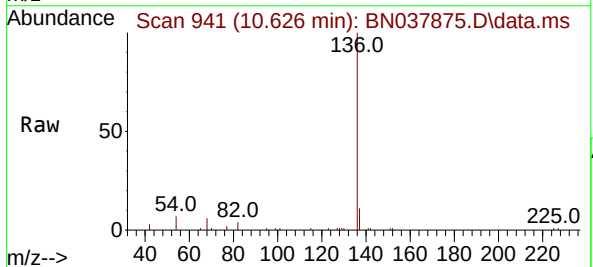
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

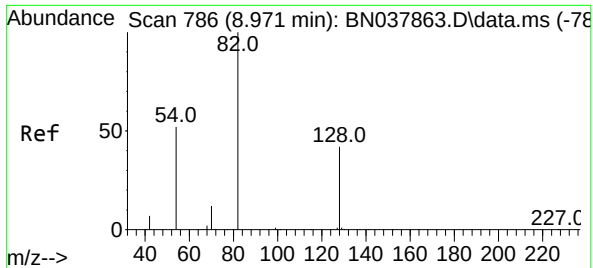
Tgt Ion: 99 Resp: 6784
Ion Ratio Lower Upper
99 100
42 20.2 17.2 25.8
71 36.8 27.3 40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion: 136 Resp: 14257
Ion Ratio Lower Upper
136 100
137 11.5 9.0 13.4
54 7.2 5.8 8.8
68 5.8 4.3 6.5

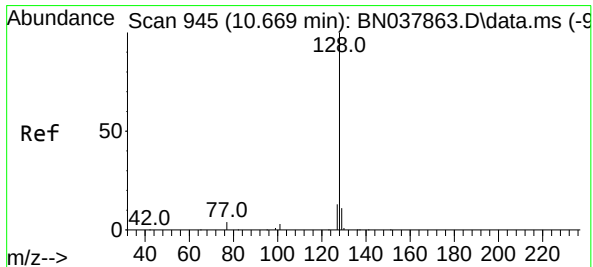
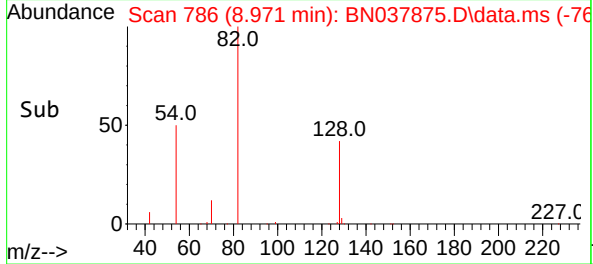
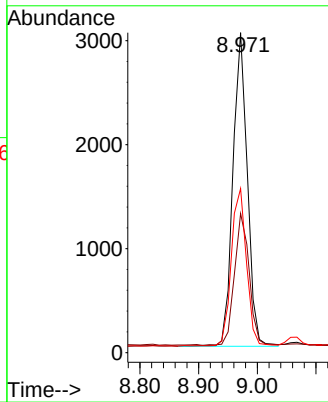
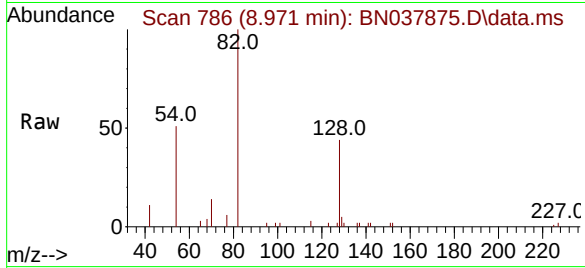




#8
Nitrobenzene-d5
Concen: 0.474 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

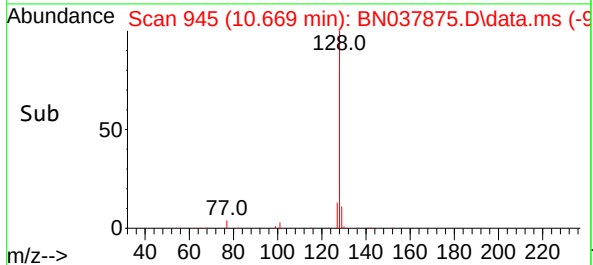
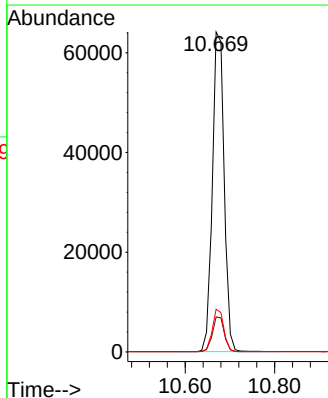
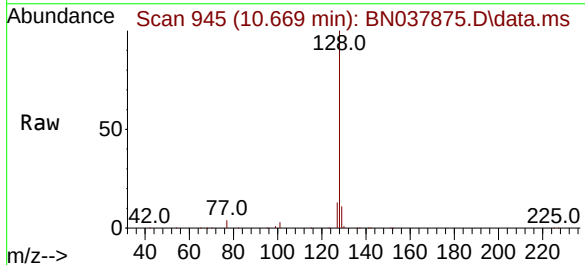
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

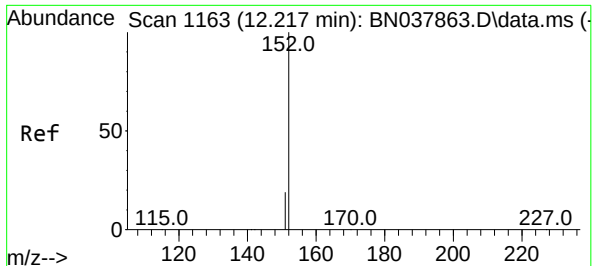
Tgt Ion:	82	Resp:	5155
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	51.3	42.2	63.2



#9
Naphthalene
Concen: 2.976 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:	128	Resp:	116901
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.3	11.0	16.6

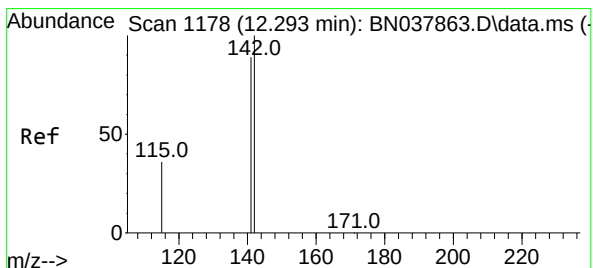
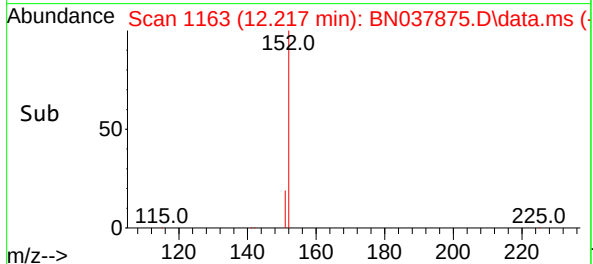
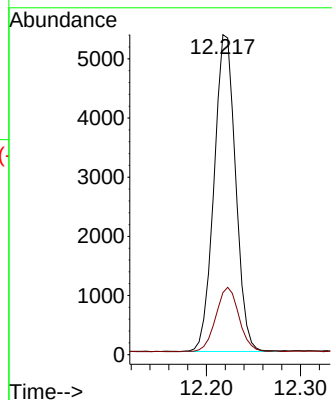
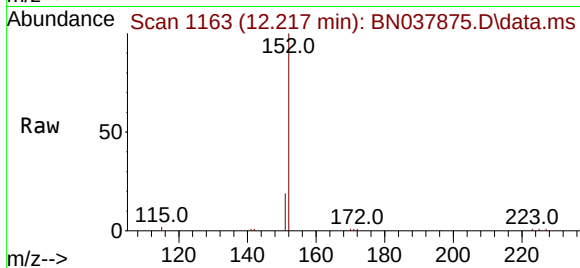




#11
2-Methylnaphthalene-d10
Concen: 0.430 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

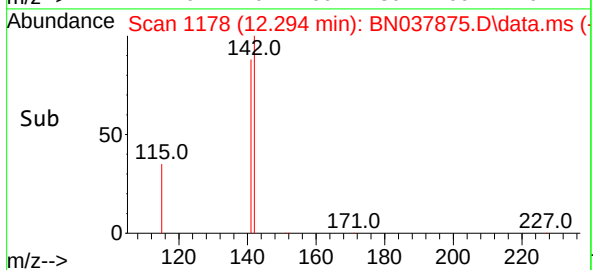
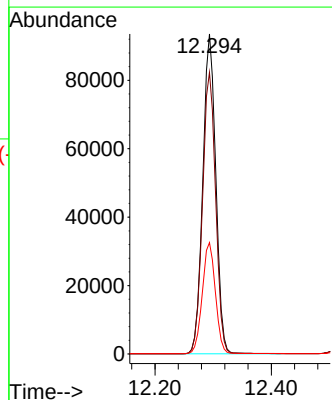
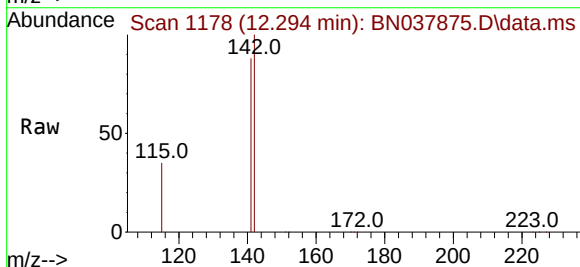
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

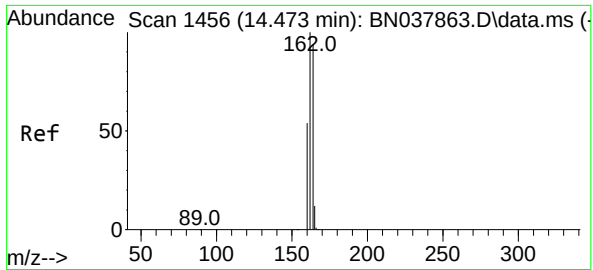
Tgt Ion:152 Resp: 8521
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.656 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:142 Resp: 145103
Ion Ratio Lower Upper
142 100
141 88.0 71.2 106.8
115 34.8 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. 0.000 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WP

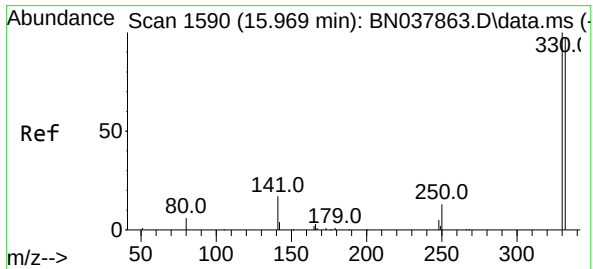
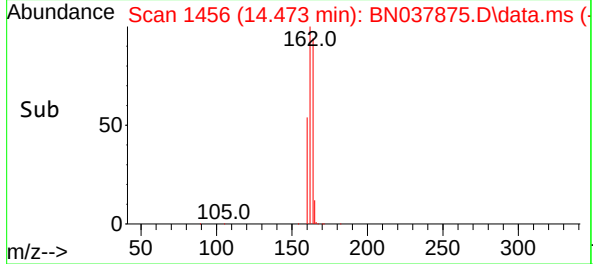
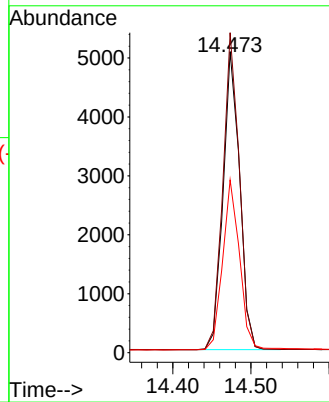
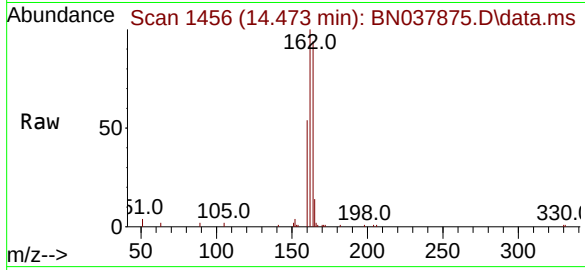
Tgt Ion:164 Resp: 7470

Ion	Ratio	Lower	Upper
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164	100		
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162	106.2	84.8	127.2
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160	57.4	46.1	69.1
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#14

2,4,6-Tribromophenol

Concen: 0.315 ng

RT: 15.969 min Scan# 1590

Delta R.T. 0.000 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

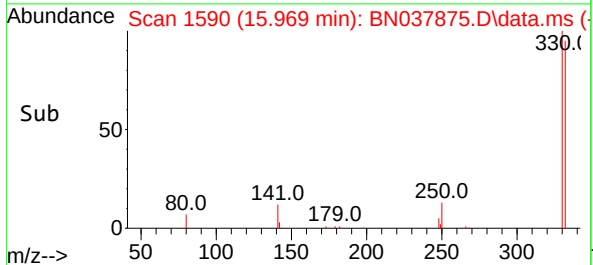
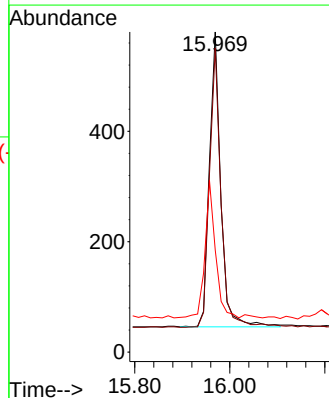
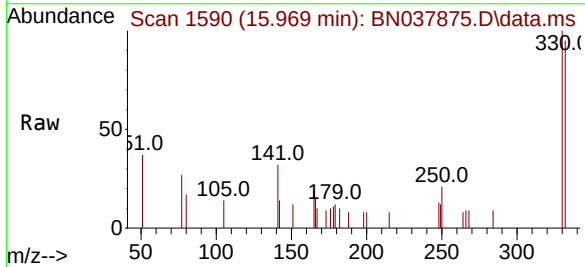
Tgt Ion:330 Resp: 892

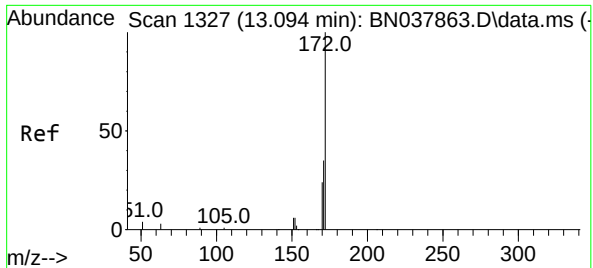
Ion	Ratio	Lower	Upper
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330	100		
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332	96.2	77.2	115.8
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141	43.0	37.2	55.8
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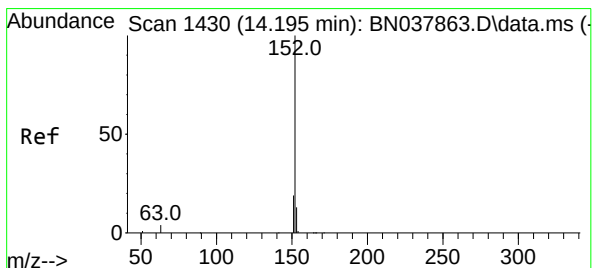
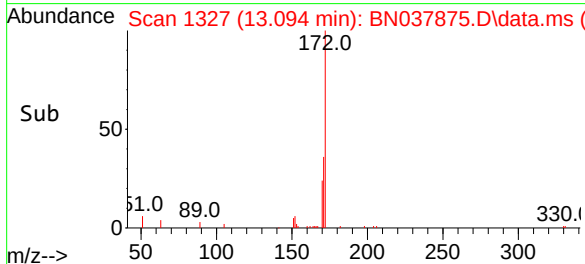
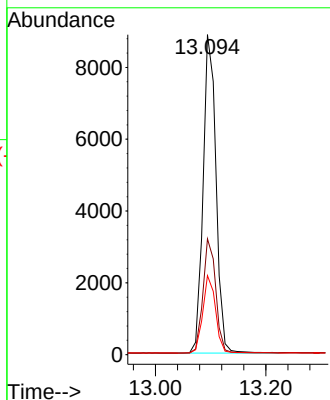
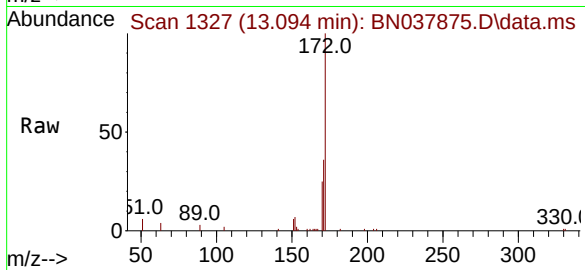




#15
2-Fluorobiphenyl
Concen: 0.473 ng
RT: 13.094 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

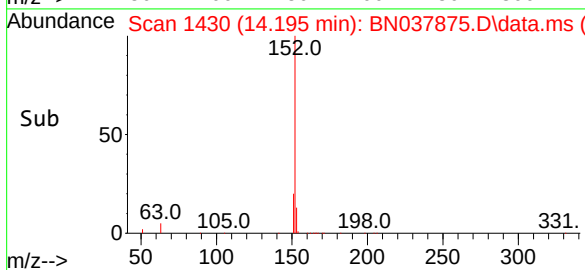
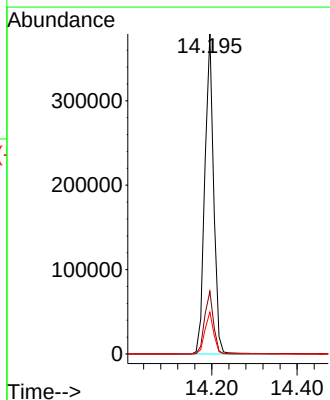
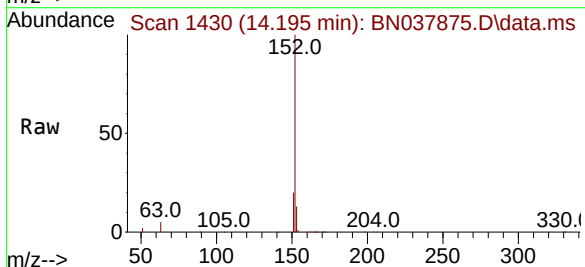
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

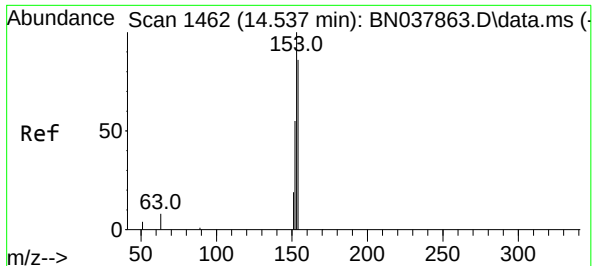
Tgt Ion:	172	Resp:	14475
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	24.7	19.7	29.5



#16
Acenaphthylene
Concen: 16.035 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:	152	Resp:	543865
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	13.0	10.5	15.7

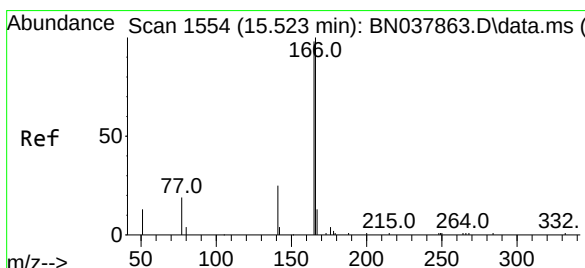
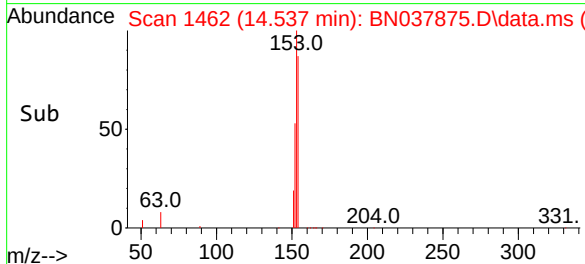
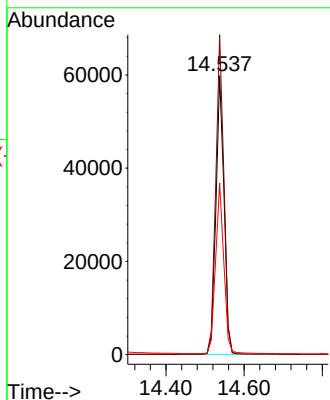
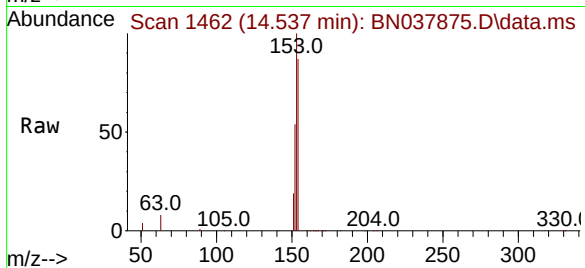




#17
Acenaphthene
Concen: 3.573 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

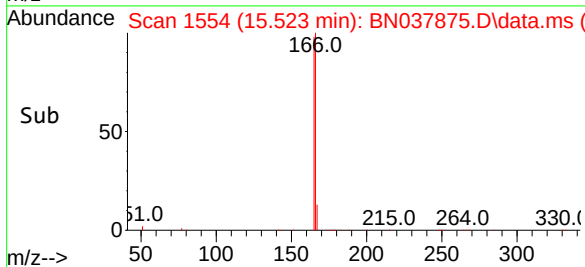
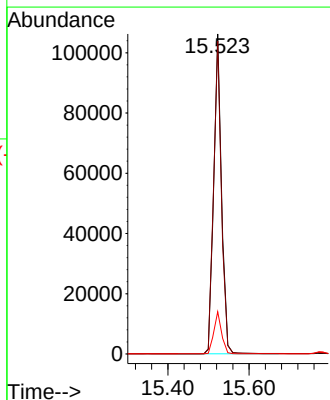
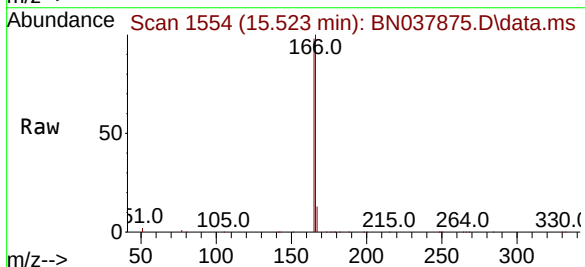
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

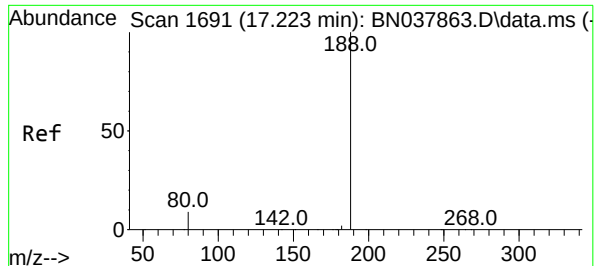
Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.7	90.5	135.7
152	62.3	51.8	77.8



#18
Fluorene
Concen: 4.656 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.0	118.4
167	13.2	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WP

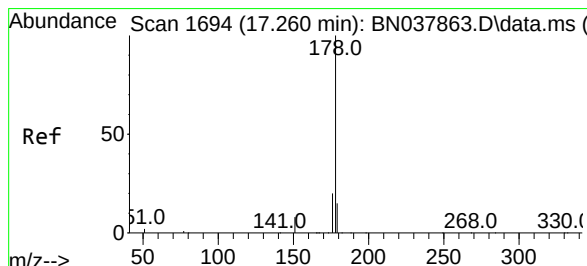
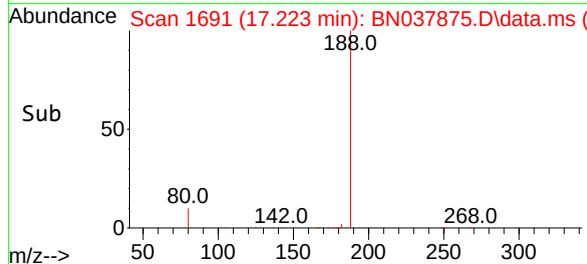
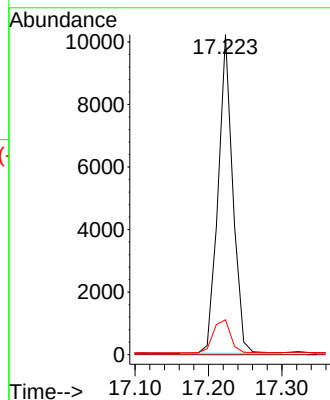
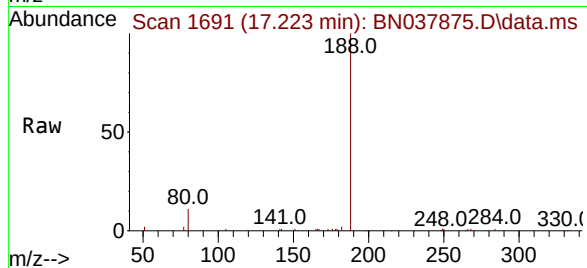
Tgt Ion:188 Resp: 14151

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 7.6 11.4



#25

Phenanthrene

Concen: 1.876 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

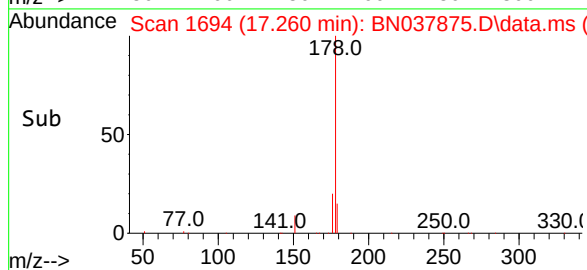
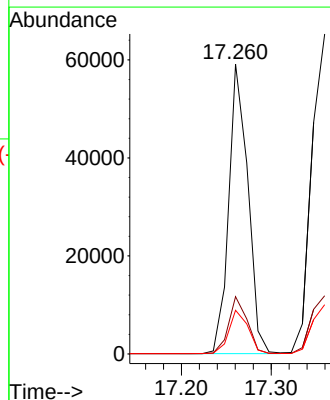
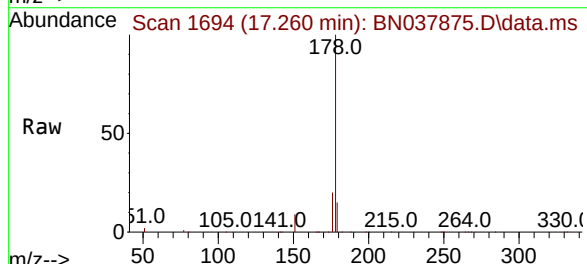
Tgt Ion:178 Resp: 87363

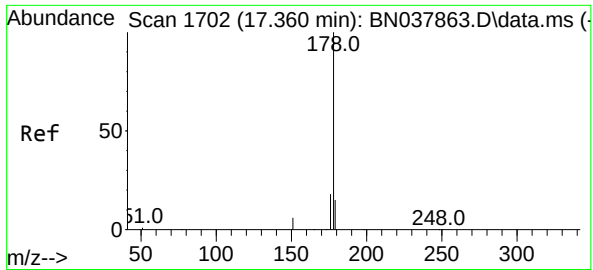
Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.2 12.3 18.5

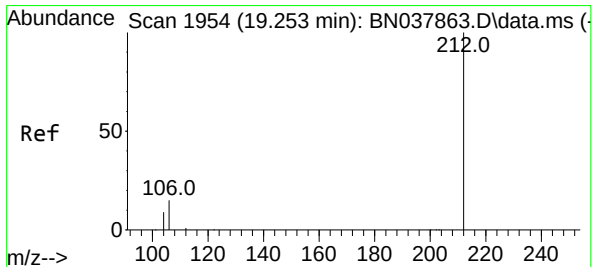
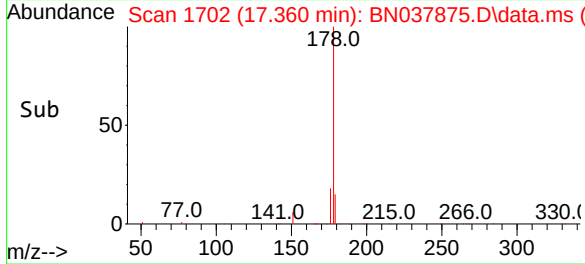
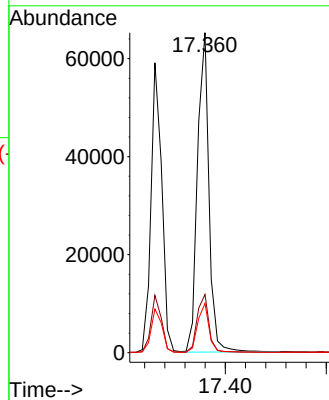
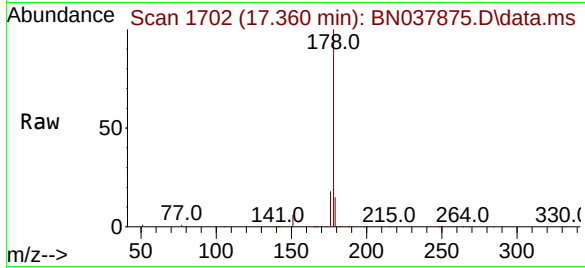




#26
Anthracene
Concen: 2.551 ng
RT: 17.360 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

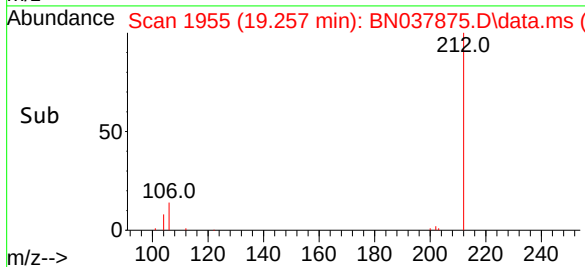
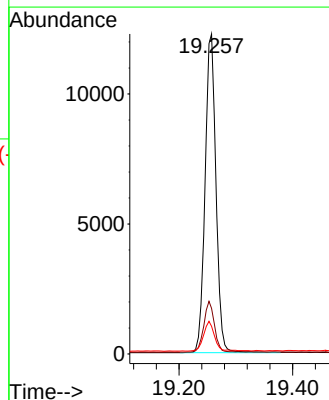
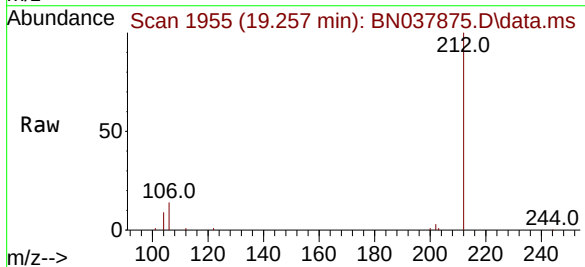
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

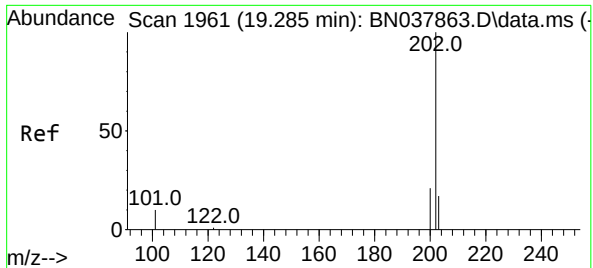
Tgt Ion:178	Resp:	103041
Ion	Ratio	Lower Upper
178	100	
176	18.5	15.0 22.4
179	15.1	12.3 18.5



#27
Fluoranthene-d10
Concen: 0.457 ng
RT: 19.257 min Scan# 1955
Delta R.T. 0.005 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:212	Resp:	16255
Ion	Ratio	Lower Upper
212	100	
106	15.7	12.6 19.0
104	9.4	7.4 11.0

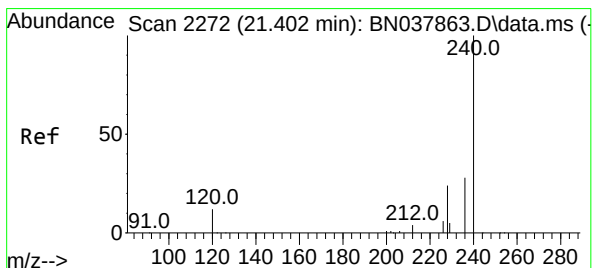
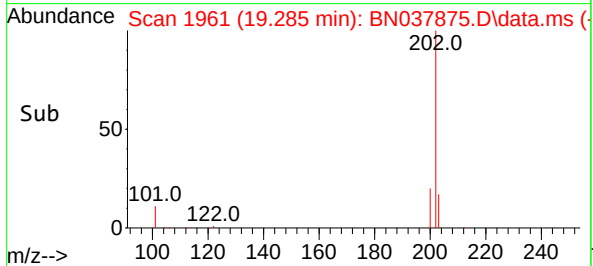
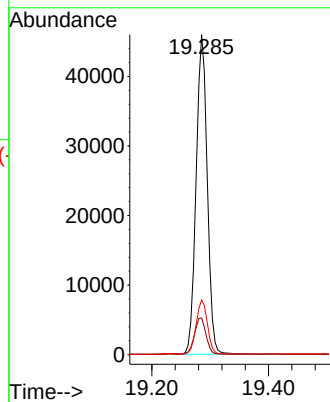
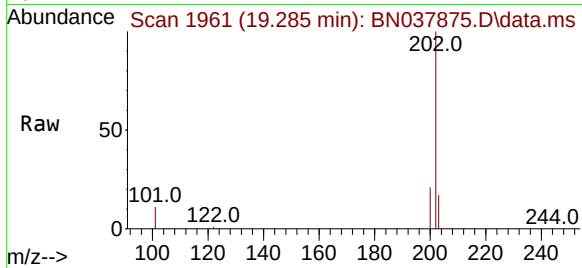




#28
Fluoranthene
Concen: 1.182 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

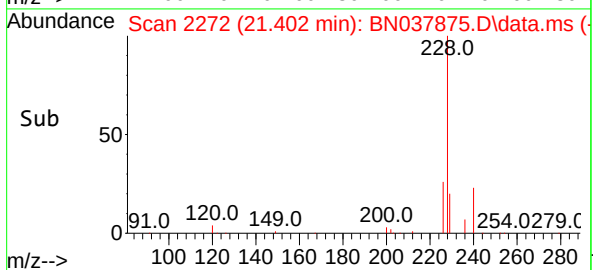
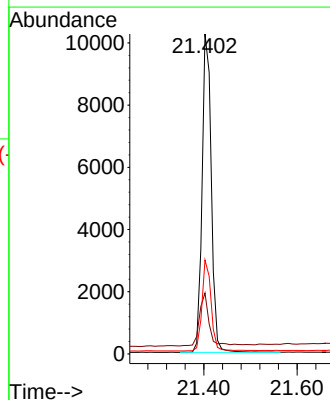
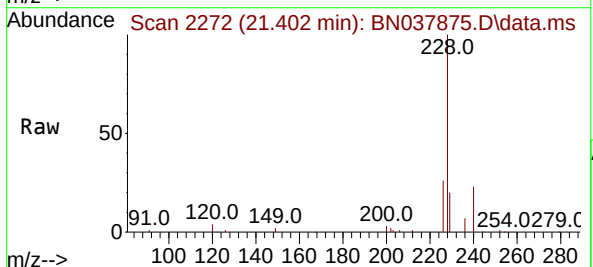
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

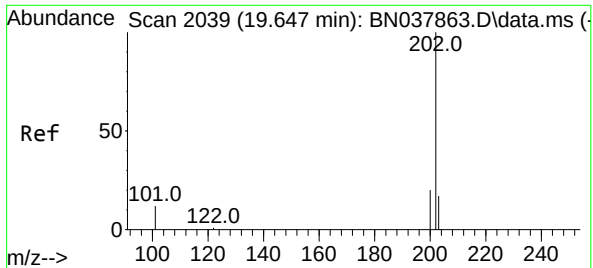
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.3	13.9
203	17.1	13.6	20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.1	11.4	17.2#
236	29.3	23.0	34.6

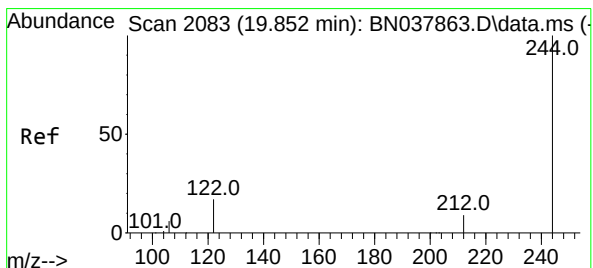
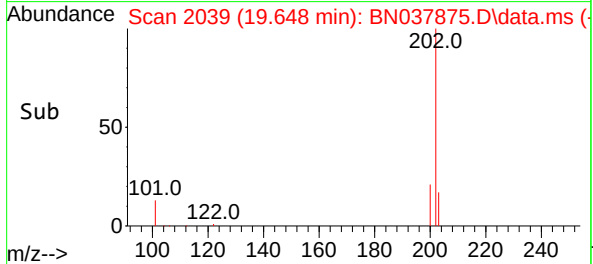
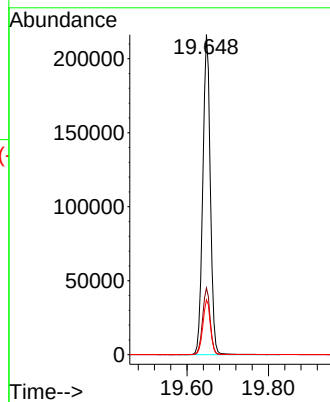
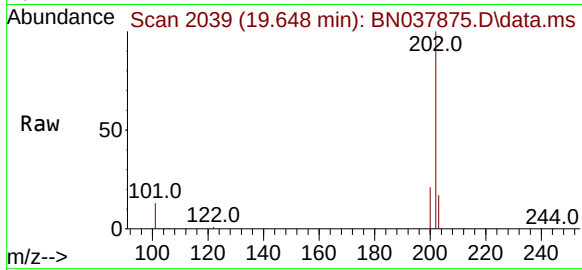




#30
Pyrene
Concen: 4.947 ng
RT: 19.648 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

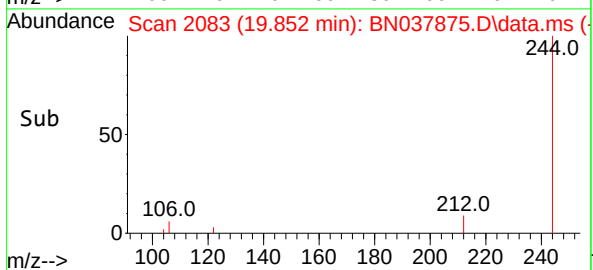
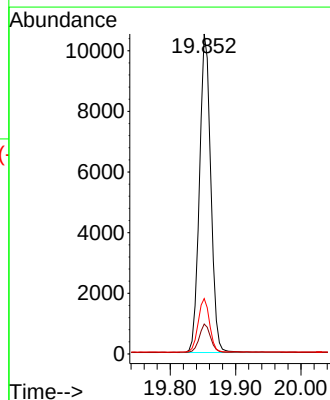
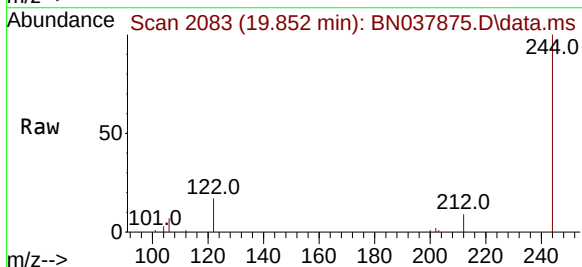
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

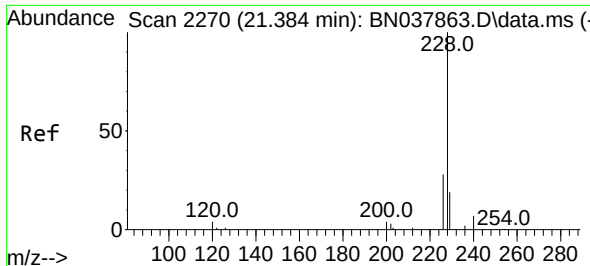
Tgt Ion:202 Resp: 275385
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.3 14.2 21.4



#31
Terphenyl-d14
Concen: 0.449 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:244 Resp: 12604
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 17.3 13.9 20.9





#32

Benzo(a)anthracene

Concen: 3.069 ng

RT: 21.393 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WP

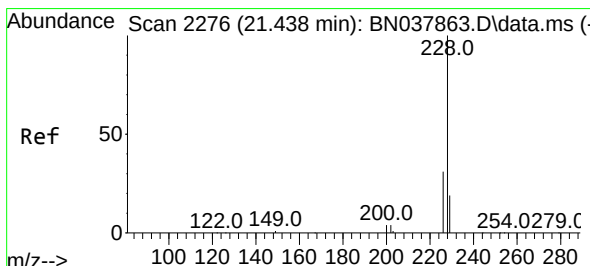
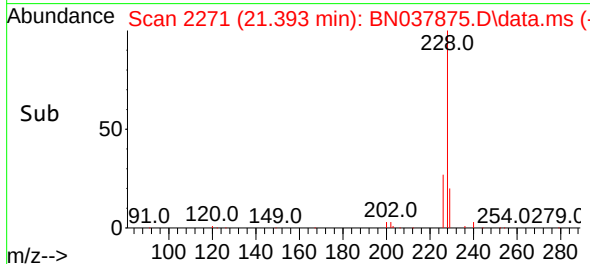
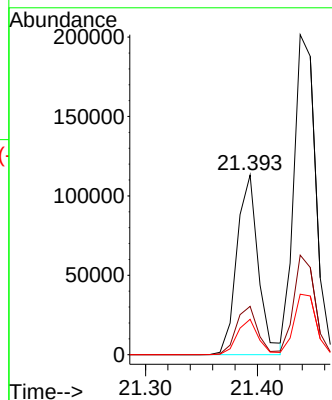
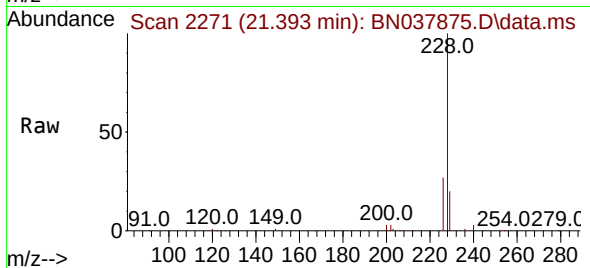
Tgt Ion:228 Resp: 151244

Ion Ratio Lower Upper

228 100

226 26.9 22.6 33.8

229 19.7 15.6 23.4



#33

Chrysene

Concen: 5.109 ng

RT: 21.438 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037875.D

Acq: 24 Sep 2025 14:12

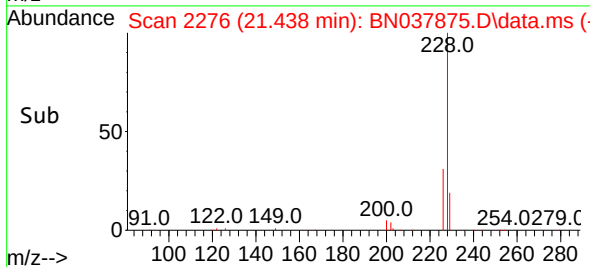
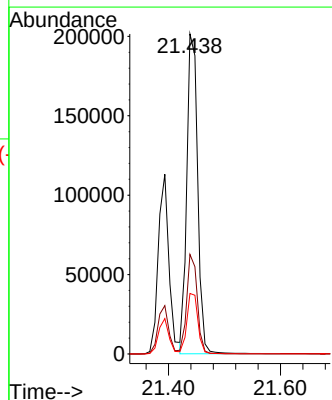
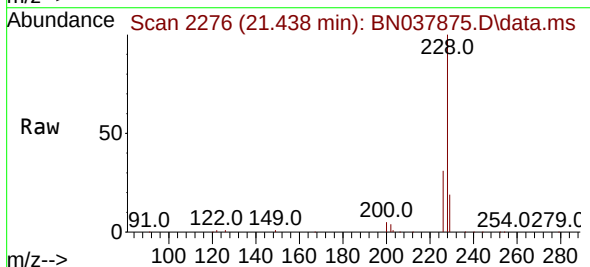
Tgt Ion:228 Resp: 272271

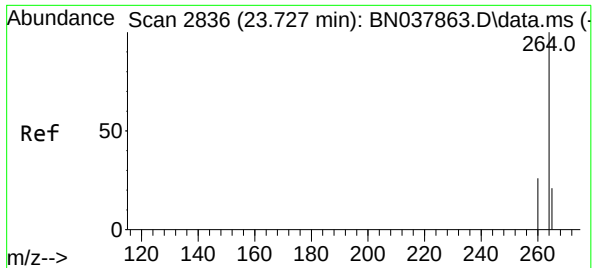
Ion Ratio Lower Upper

228 100

226 31.1 24.6 37.0

229 18.9 15.6 23.4

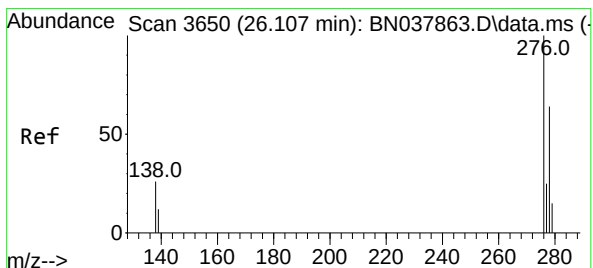
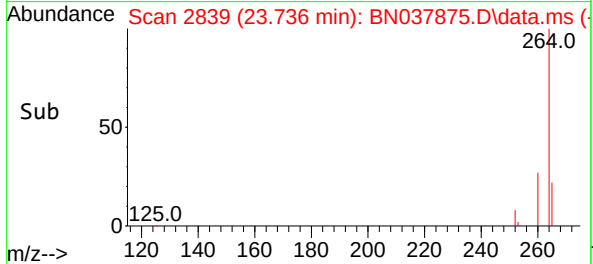
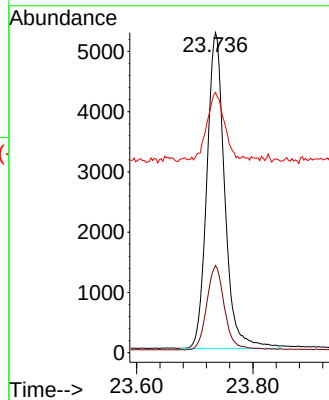
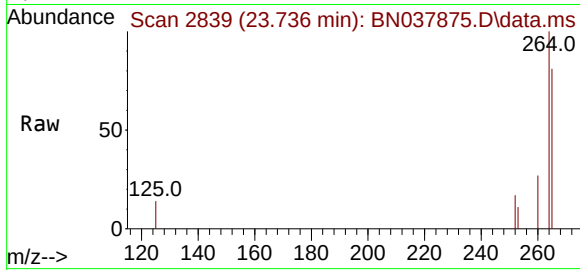




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

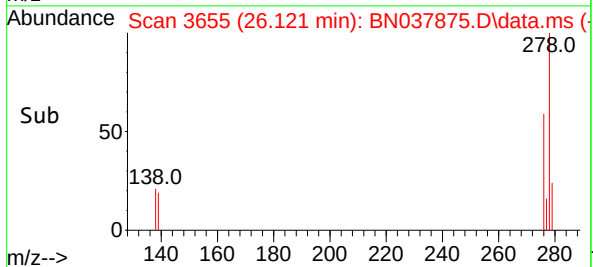
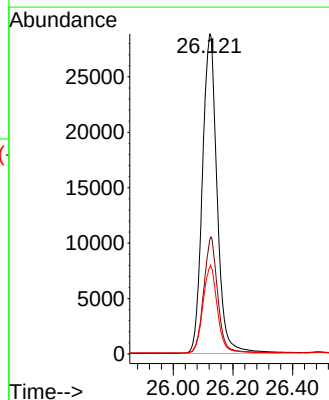
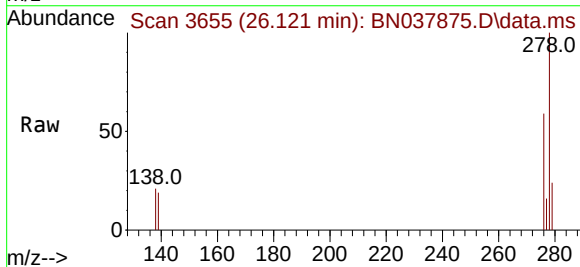
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

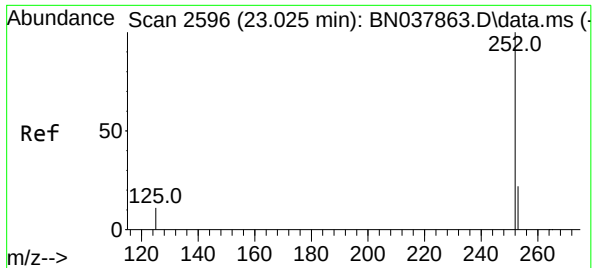
Tgt Ion:264 Resp: 11154
Ion Ratio Lower Upper
264 100
260 27.2 21.5 32.3
265 81.4 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.938 ng
RT: 26.121 min Scan# 3655
Delta R.T. 0.015 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:276 Resp: 98747
Ion Ratio Lower Upper
276 100
138 34.4 21.4 32.0#
277 26.8 20.3 30.5

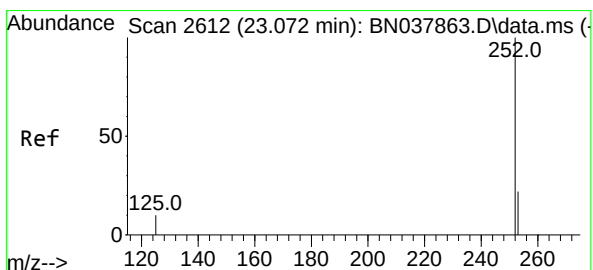
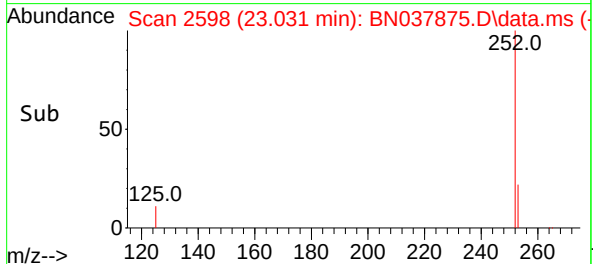
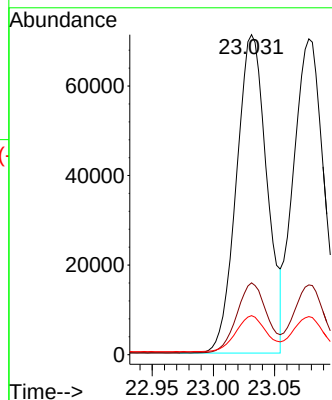
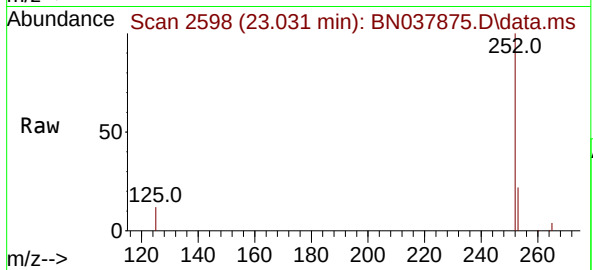




#37
Benzo(b)fluoranthene
Concen: 2.558 ng
RT: 23.031 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

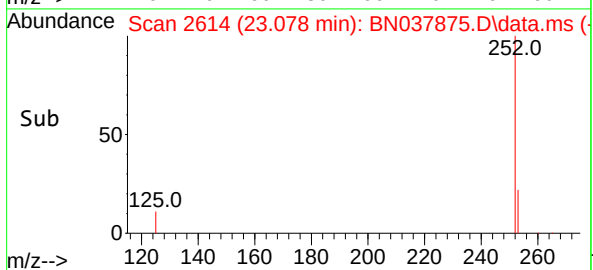
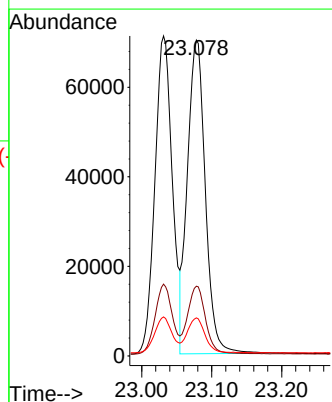
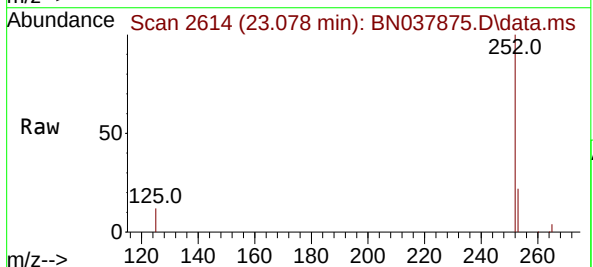
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

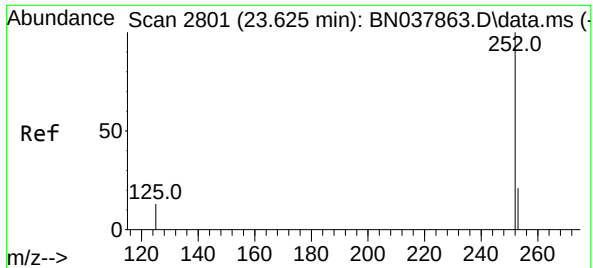
Tgt Ion:252 Resp: 123046
Ion Ratio Lower Upper
252 100
253 22.5 19.4 29.0
125 12.2 13.0 19.4#



#38
Benzo(k)fluoranthene
Concen: 2.574 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Tgt Ion:252 Resp: 124587
Ion Ratio Lower Upper
252 100
253 22.1 19.5 29.3
125 12.1 13.0 19.4#

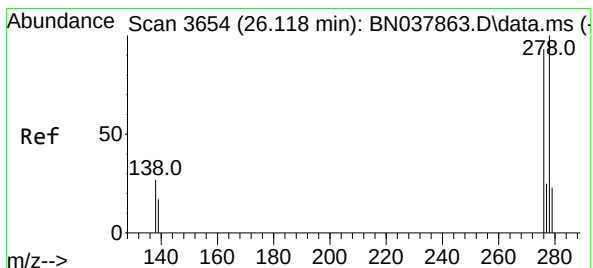
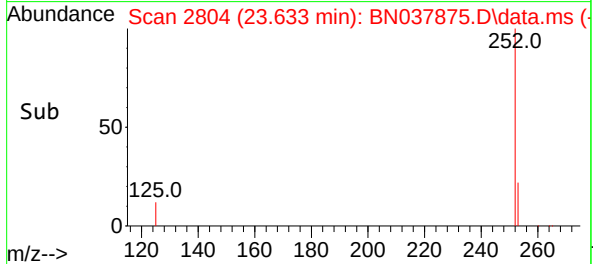
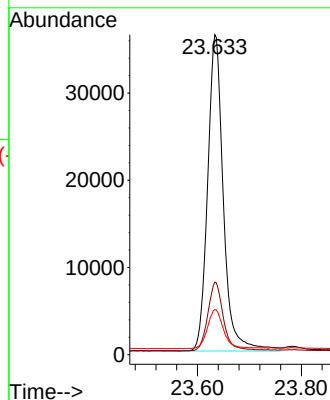
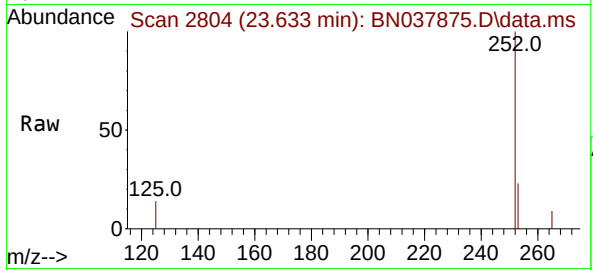




#39
Benzo(a)pyrene
Concen: 2.004 ng
RT: 23.633 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

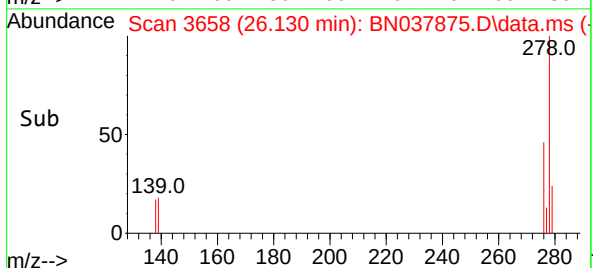
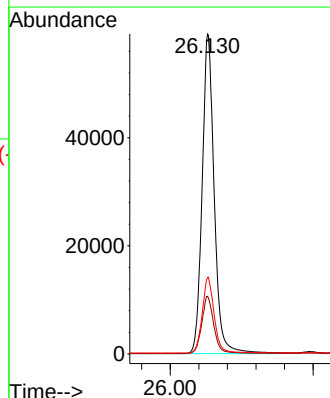
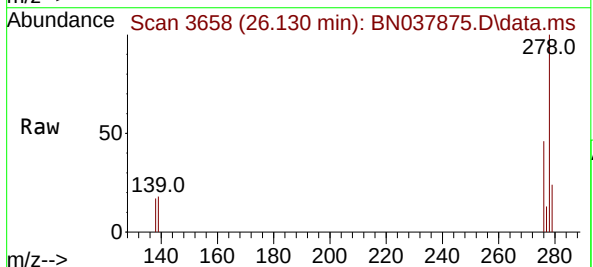
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP

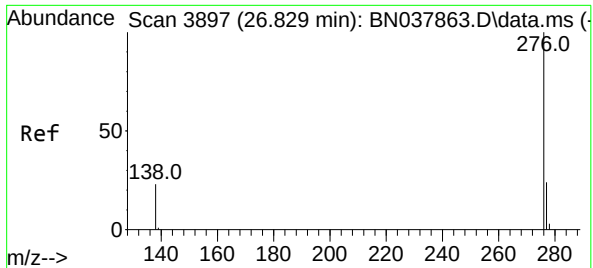
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	20.6	30.8
125	14.1	16.7	25.1



#40
Dibenzo(a,h)anthracene
Concen: 4.363 ng
RT: 26.130 min Scan# 3658
Delta R.T. 0.012 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

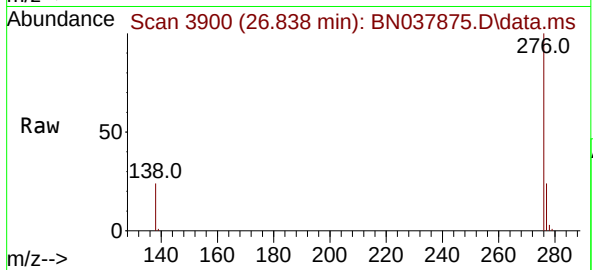
Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.0	15.4	23.2
279	23.9	20.8	31.2



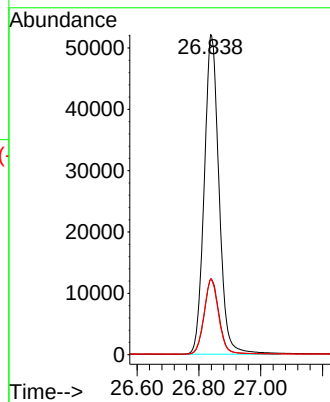
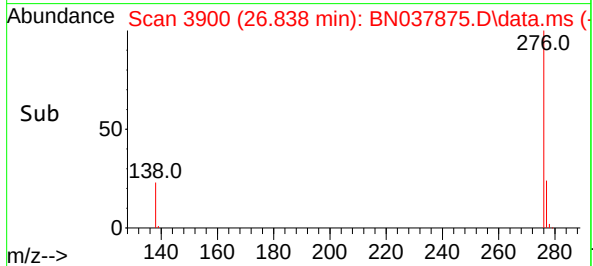


#41
Benzo(g,h,i)perylene
Concen: 4.154 ng
RT: 26.838 min Scan# 3900
Delta R.T. 0.009 min
Lab File: BN037875.D
Acq: 24 Sep 2025 14:12

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WP



Tgt Ion:276 Resp: 173660
Ion Ratio Lower Upper
276 100
277 23.7 20.2 30.4
138 23.5 19.8 29.8



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25	
Project:	NJ Waste Water PT		Date Received:	09/04/25	
Client Sample ID:	WP0925-RR-PAH-WPDL		SDG No.:	Q3015	
Lab Sample ID:	Q3015-21DL		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037876.D	10	09/16/25 09:39	09/24/25 15:05	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	2.70	D	0.40	1.00	ug/L
91-57-6	2-Methylnaphthalene	4.80	D	0.42	1.00	ug/L
208-96-8	Acenaphthylene	12.3	D	0.38	1.00	ug/L
83-32-9	Acenaphthene	3.00	D	0.38	1.00	ug/L
86-73-7	Fluorene	3.90	D	0.38	1.00	ug/L
85-01-8	Phenanthrene	1.60	D	0.34	1.00	ug/L
120-12-7	Anthracene	2.00	D	0.36	1.00	ug/L
206-44-0	Fluoranthene	0.99	JD	0.34	1.00	ug/L
129-00-0	Pyrene	4.40	D	0.31	1.00	ug/L
56-55-3	Benzo(a)anthracene	2.70	D	0.36	1.00	ug/L
218-01-9	Chrysene	4.60	D	0.37	1.00	ug/L
205-99-2	Benzo(b)fluoranthene	2.10	D	0.35	1.00	ug/L
207-08-9	Benzo(k)fluoranthene	2.10	D	0.50	1.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	D	0.42	1.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.60	D	0.46	1.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	3.60	D	0.47	1.00	ug/L
191-24-2	Benzo(g,h,i)perylene	3.50	D	0.42	1.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		20 - 139	97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		54 - 157	100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.99	*	27 - 154	247%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	1.01	*	30 - 155	252%	SPK: 0.4
1718-51-0	Terphenyl-d14	1.08	*	54 - 175	270%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	5420		7.833		
1146-65-2	Naphthalene-d8	15300		10.637		
15067-26-2	Acenaphthene-d10	7910		14.484		
1517-22-2	Phenanthrene-d10	15600		17.223		
1719-03-5	Chrysene-d12	13300		21.411		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	09/02/25
Project:	NJ Waste Water PT		Date Received:	09/04/25
Client Sample ID:	WP0925-RR-PAH-WPDL		SDG No.:	Q3015
Lab Sample ID:	Q3015-21DL		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group5
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037876.D	10	09/16/25 09:39	09/24/25 15:05	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	12100	23.741			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037876.D
 Acq On : 24 Sep 2025 15:05
 Operator : RC/JU
 Sample : Q3015-21DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 WP0925-RR-PAH-WPDL

Quant Time: Sep 24 15:47:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

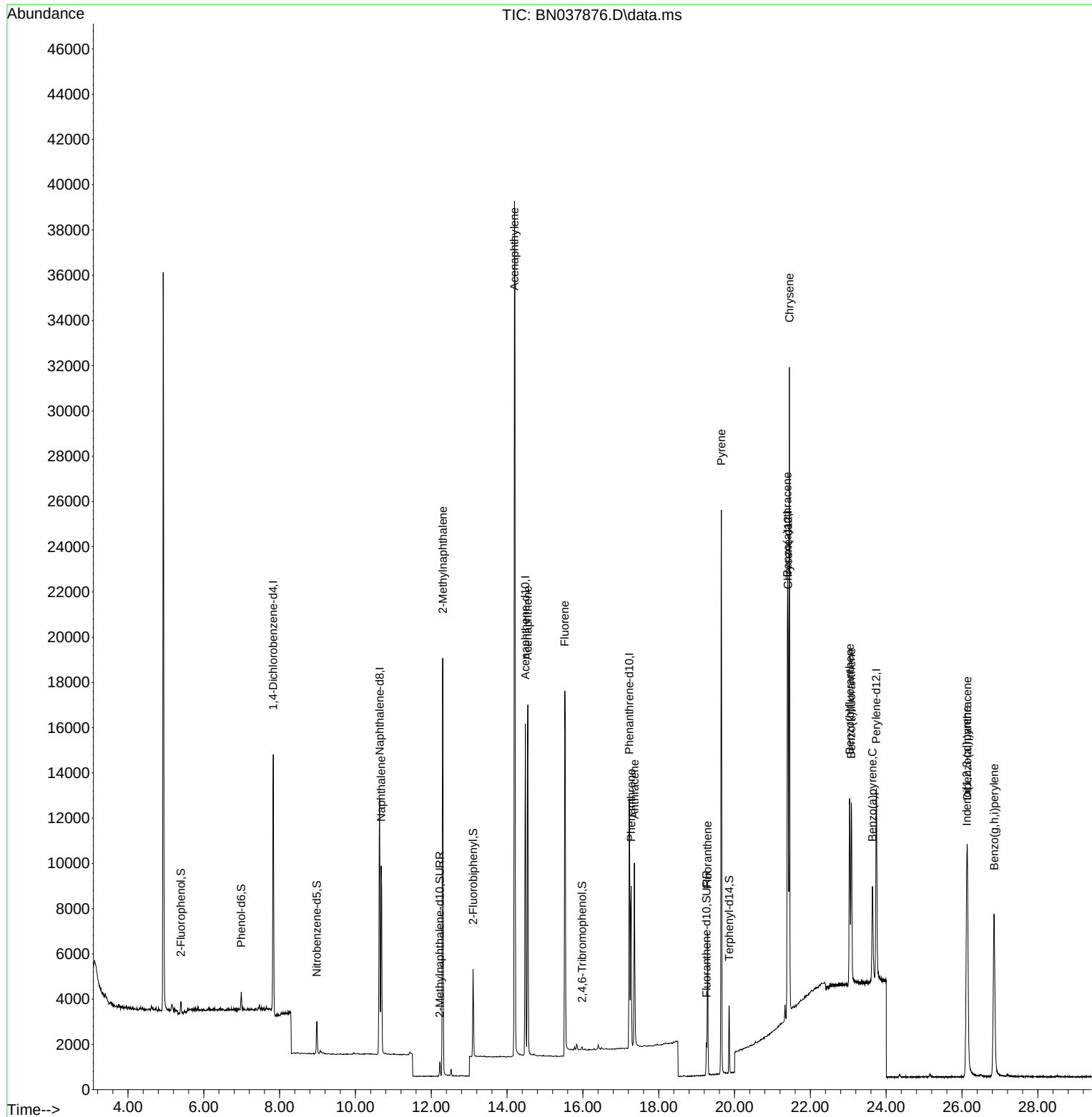
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.833	152	5423	0.400	ng	0.00
7) Naphthalene-d8	10.637	136	15340	0.400	ng	0.01
13) Acenaphthene-d10	14.484	164	7909	0.400	ng	0.01
19) Phenanthrene-d10	17.223	188	15562	0.400	ng	# 0.00
29) Chrysene-d12	21.411	240	13258	0.400	ng	0.00
35) Perylene-d12	23.741	264	12068	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.399	112	470	0.038	ng	0.01
5) Phenol-d6	6.988	99	656	0.040	ng	0.01
8) Nitrobenzene-d5	8.982	82	1161	0.099	ng	0.01
11) 2-Methylnaphthalene-d10	12.227	152	833	0.039	ng	0.01
14) 2,4,6-Tribromophenol	15.982	330	100	0.033	ng	0.01
15) 2-Fluorobiphenyl	13.105	172	3279	0.101	ng	0.01
27) Fluoranthene-d10	19.262	212	1557	0.040	ng	0.00
31) Terphenyl-d14	19.856	244	2854	0.108	ng	0.00
Target Compounds						
9) Naphthalene	10.680	128	11342	0.268	ng	Qvalue 100
12) 2-Methylnaphthalene	12.303	142	13198	0.478	ng	99
16) Acenaphthylene	14.195	152	44253	1.232	ng	100
17) Acenaphthene	14.548	154	7695	0.301	ng	98
18) Fluorene	15.522	166	12205	0.394	ng	99
25) Phenanthrene	17.273	178	8194	0.160	ng	100
26) Anthracene	17.359	178	8688	0.196	ng	100
28) Fluoranthene	19.290	202	5581	0.099	ng	99
30) Pyrene	19.652	202	22911	0.438	ng	100
32) Benzo(a)anthracene	21.393	228	12407	0.268	ng	99
33) Chrysene	21.447	228	23008	0.459	ng	100
36) Indeno(1,2,3-cd)pyrene	26.124	276	8944	0.162	ng	# 91
37) Benzo(b)fluoranthene	23.037	252	11104	0.213	ng	# 92
38) Benzo(k)fluoranthene	23.081	252	10856	0.207	ng	# 93
39) Benzo(a)pyrene	23.639	252	6821	0.166	ng	# 83
40) Dibenzo(a,h)anthracene	26.139	278	15355	0.357	ng	98
41) Benzo(g,h,i)perylene	26.849	276	15790	0.349	ng	99

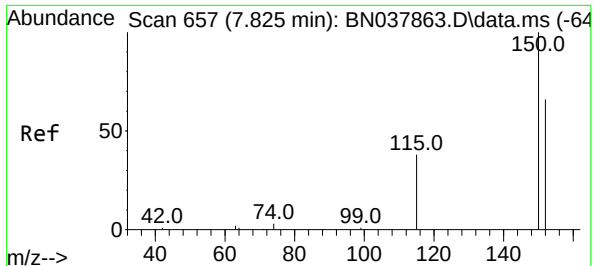
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037876.D
Acq On : 24 Sep 2025 15:05
Operator : RC/JU
Sample : Q3015-21DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

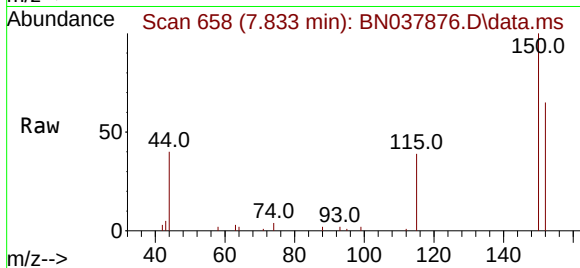
Quant Time: Sep 24 15:47:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



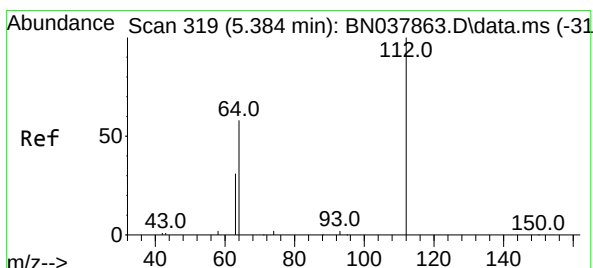
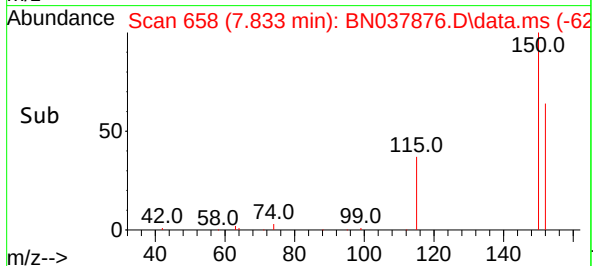
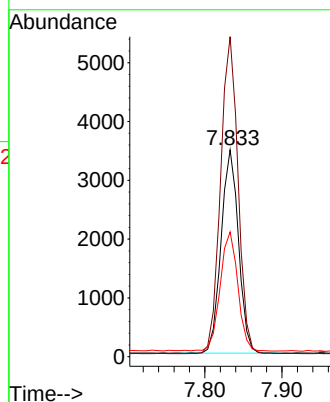


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.833 min Scan# 61
Delta R.T. 0.008 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

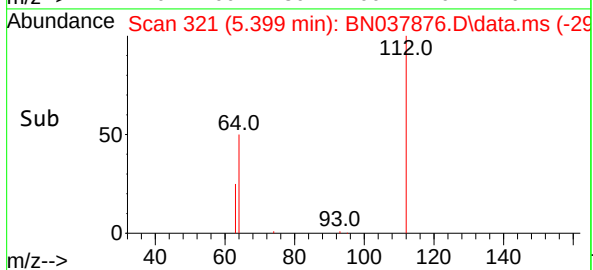
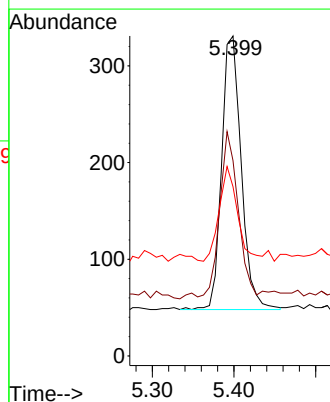
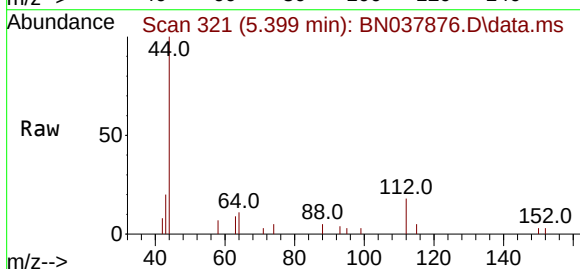


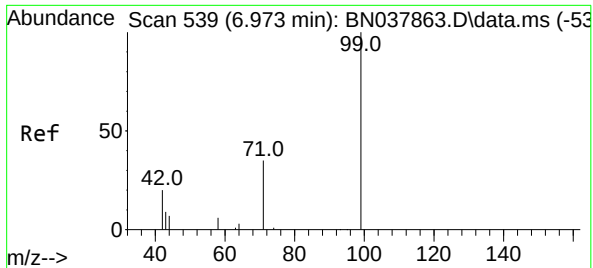
Tgt Ion:152 Resp: 5423
Ion Ratio Lower Upper
152 100
150 154.7 121.0 181.4
115 60.3 47.4 71.0



#4
2-Fluorophenol
Concen: 0.038 ng
RT: 5.399 min Scan# 321
Delta R.T. 0.014 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:112 Resp: 470
Ion Ratio Lower Upper
112 100
64 57.2 44.6 66.8
63 32.3 24.9 37.3

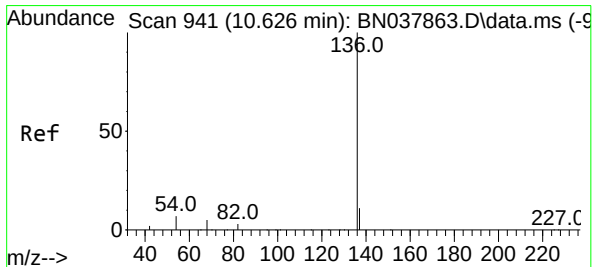
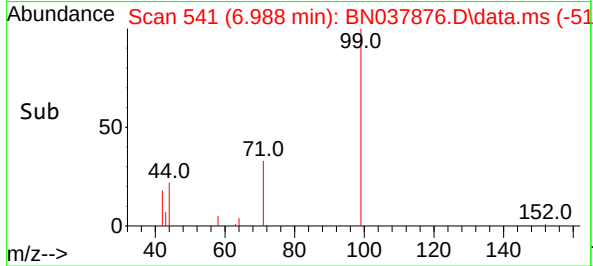
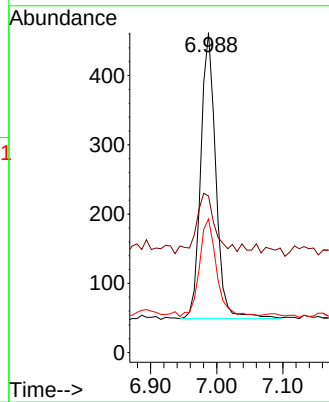
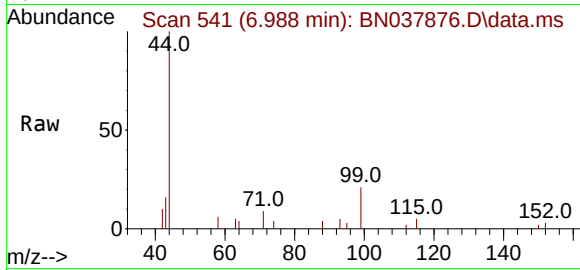




#5
Phenol-d6
Concen: 0.040 ng
RT: 6.988 min Scan# 541
Delta R.T. 0.014 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

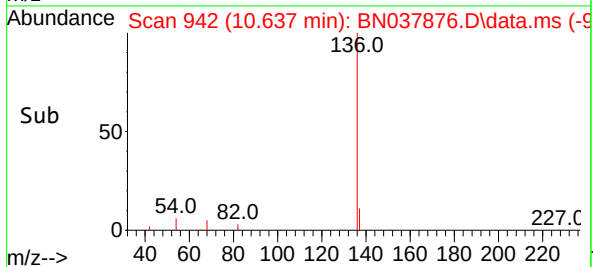
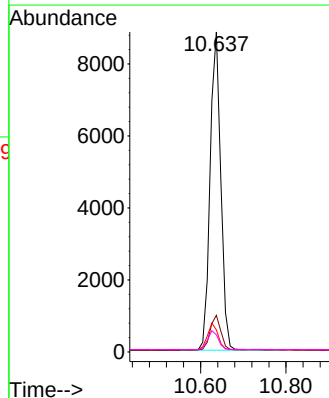
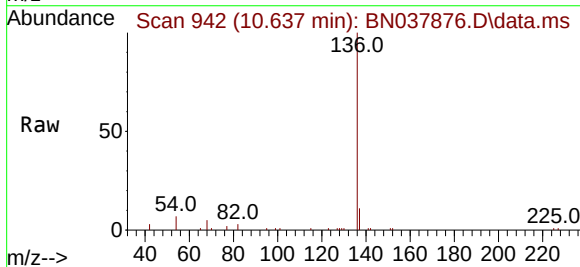
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

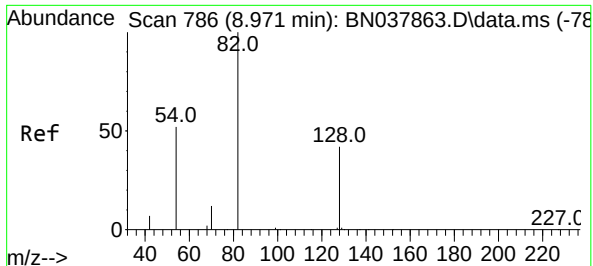
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.2	17.2	25.8#
71	39.3	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.637 min Scan# 942
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	6.9	5.8	8.8
68	5.3	4.3	6.5

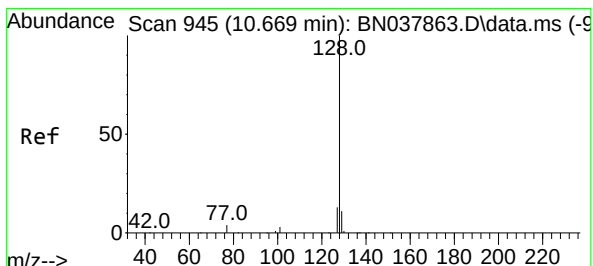
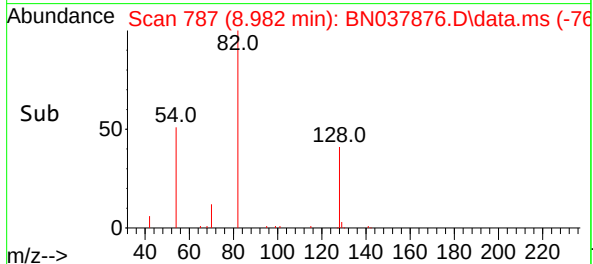
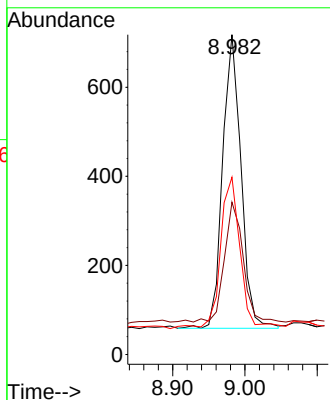
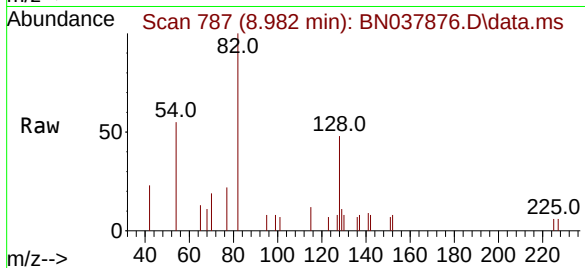




#8
Nitrobenzene-d5
Concen: 0.099 ng
RT: 8.982 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

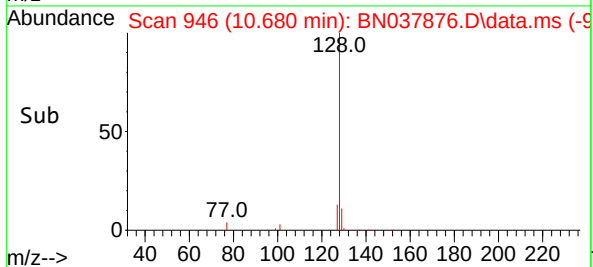
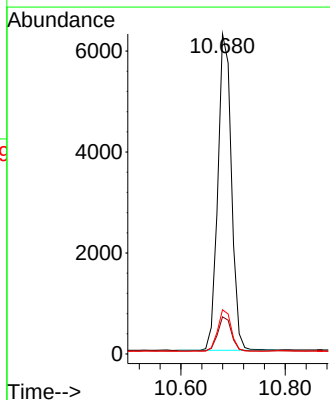
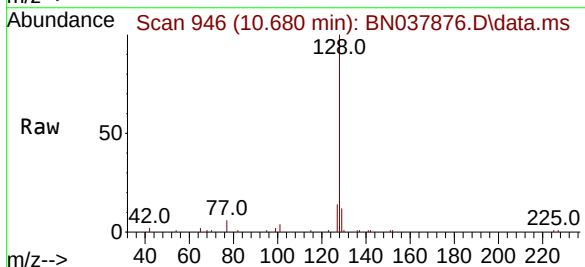
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

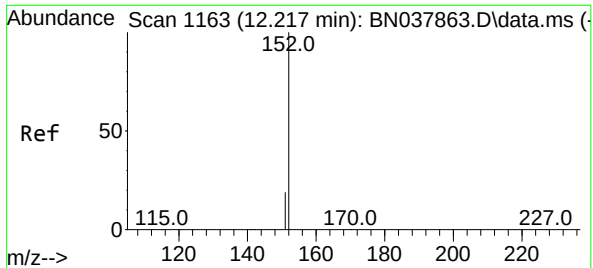
Tgt Ion:	82	Resp:	1161
Ion Ratio	Lower	Upper	
82	100		
128	47.6	34.8	52.2
54	55.4	42.2	63.2



#9
Naphthalene
Concen: 0.268 ng
RT: 10.680 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:	128	Resp:	11342
Ion Ratio	Lower	Upper	
128	100		
129	11.6	9.2	13.8
127	13.8	11.0	16.6

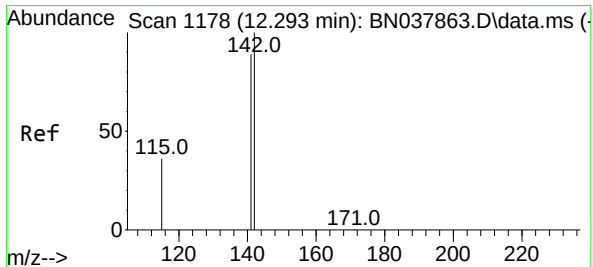
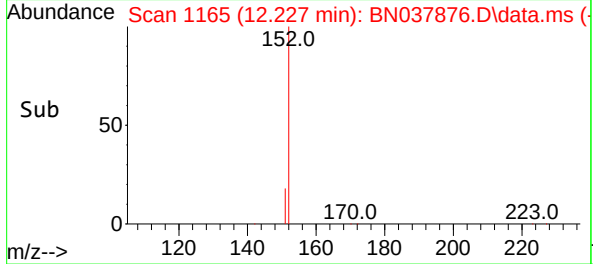
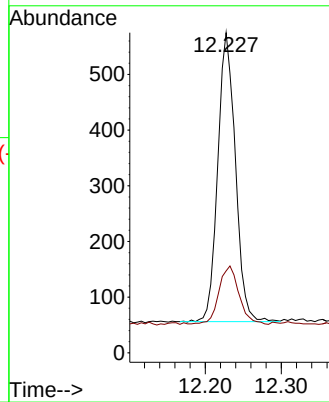
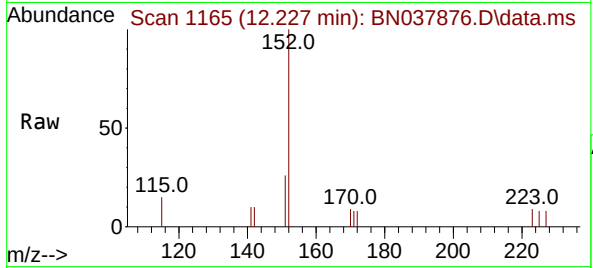




#11
2-Methylnaphthalene-d10
Concen: 0.039 ng
RT: 12.227 min Scan# 1165
Delta R.T. 0.010 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

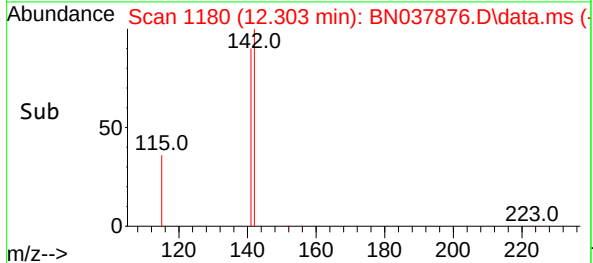
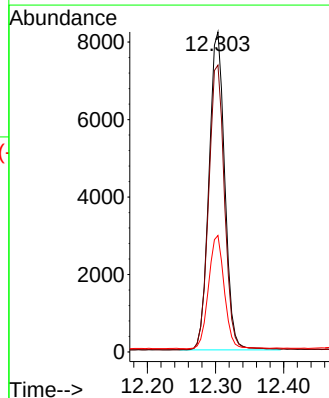
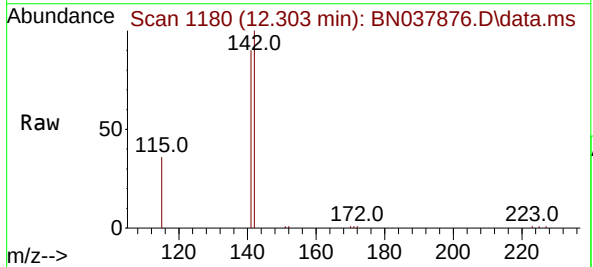
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

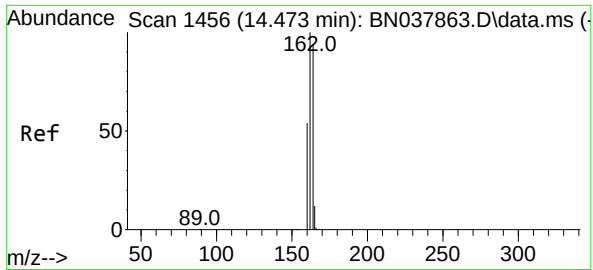
Tgt Ion:152 Resp: 833
Ion Ratio Lower Upper
152 100
151 23.5 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.478 ng
RT: 12.303 min Scan# 1180
Delta R.T. 0.010 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:142 Resp: 13198
Ion Ratio Lower Upper
142 100
141 89.7 71.2 106.8
115 36.4 29.7 44.5

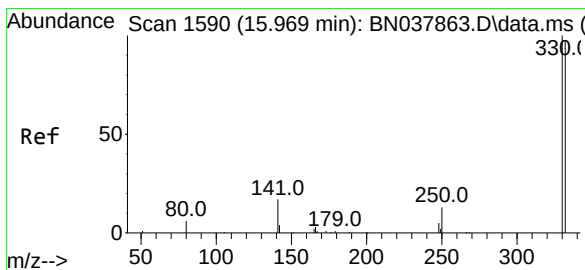
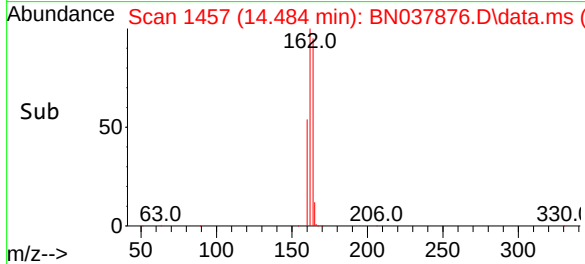
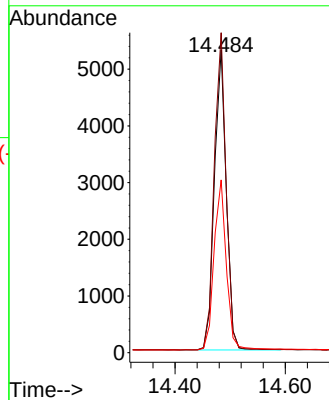
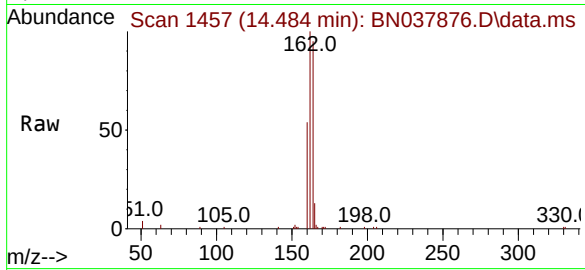




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.484 min Scan# 1456
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

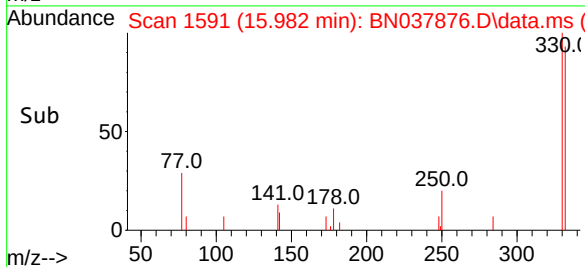
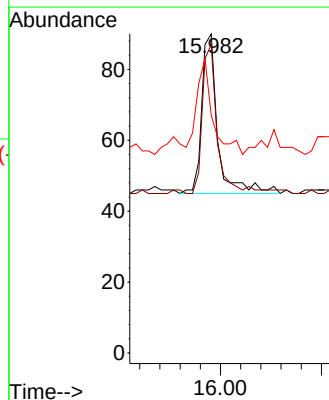
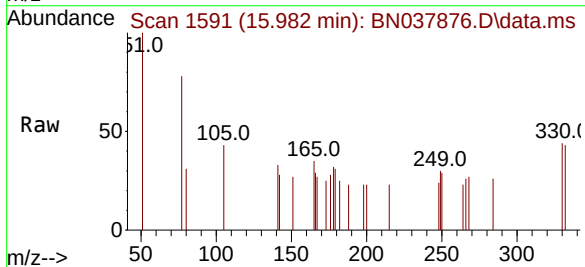
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

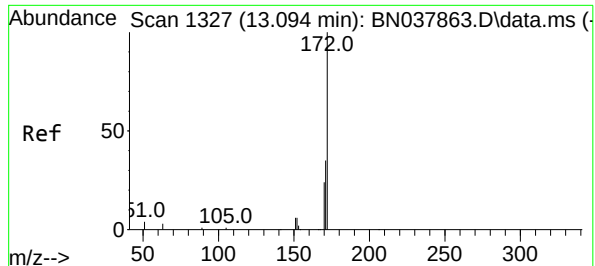
Tgt Ion:164 Resp: 7909
Ion Ratio Lower Upper
164 100
162 105.6 84.8 127.2
160 57.0 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.033 ng
RT: 15.982 min Scan# 1591
Delta R.T. 0.013 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:330 Resp: 100
Ion Ratio Lower Upper
330 100
332 88.0 77.2 115.8
141 59.0 37.2 55.8#





#15

2-Fluorobiphenyl

Concen: 0.101 ng

RT: 13.105 min Scan# 1327

Delta R.T. 0.011 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

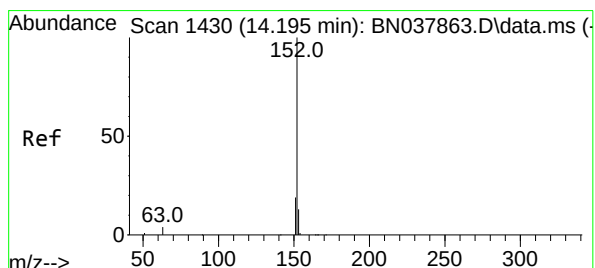
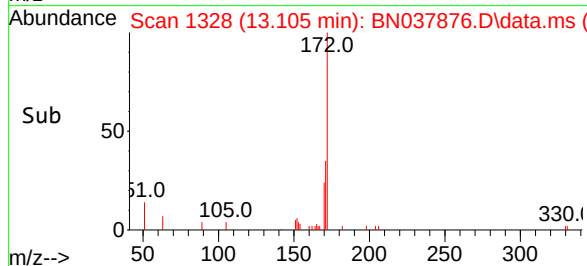
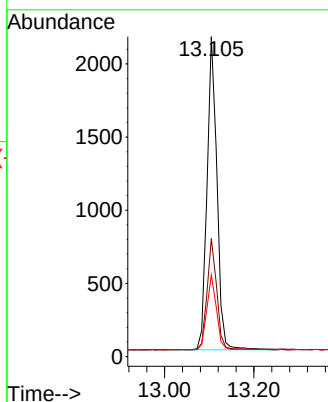
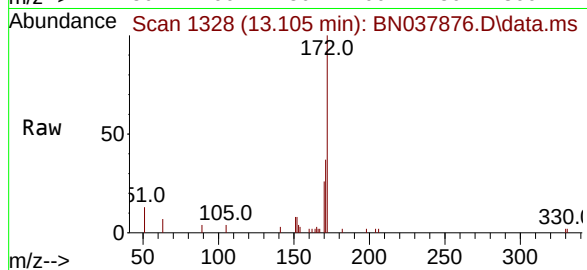
Tgt Ion:172 Resp: 3279

Ion Ratio Lower Upper

172 100

171 36.9 28.6 43.0

170 25.5 19.7 29.5



#16

Acenaphthylene

Concen: 1.232 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

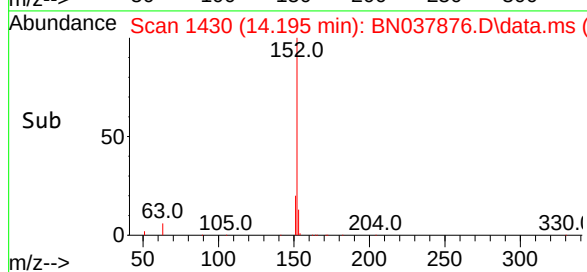
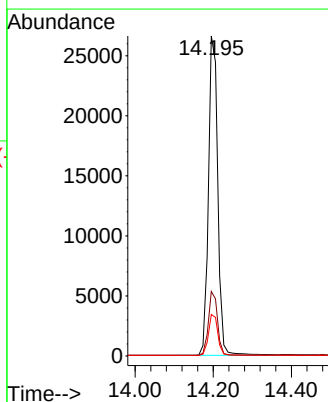
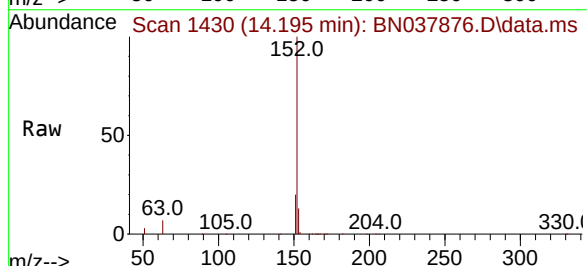
Tgt Ion:152 Resp: 44253

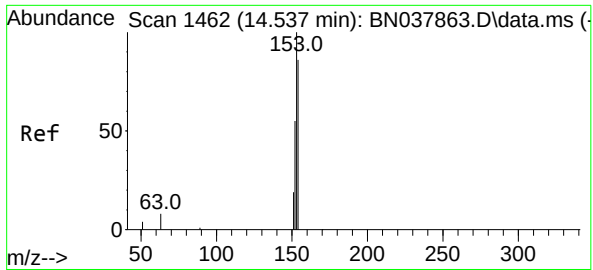
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 12.9 10.5 15.7

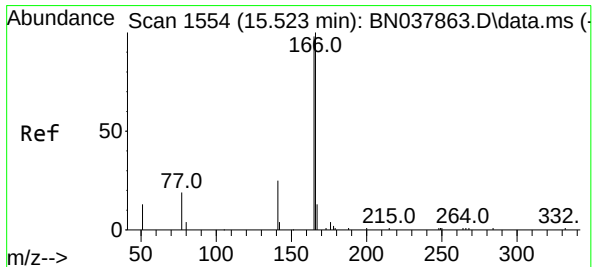
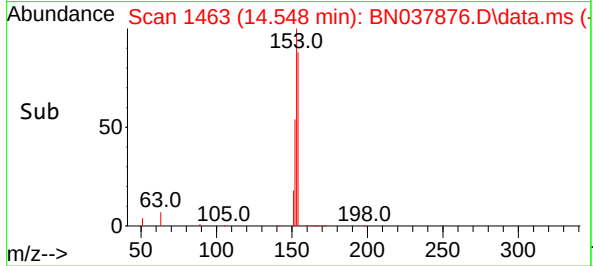
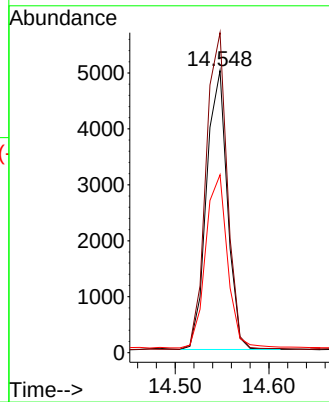
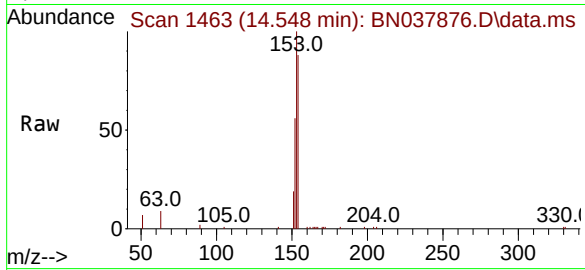




#17
Acenaphthene
Concen: 0.301 ng
RT: 14.548 min Scan# 1463
Delta R.T. 0.011 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

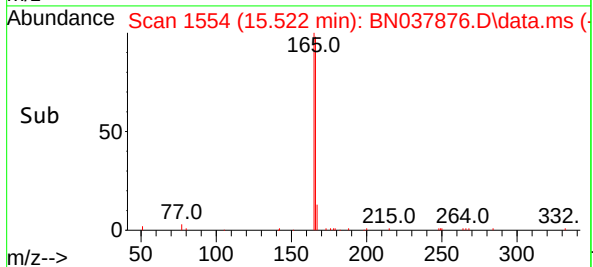
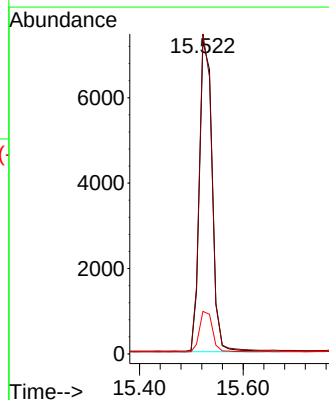
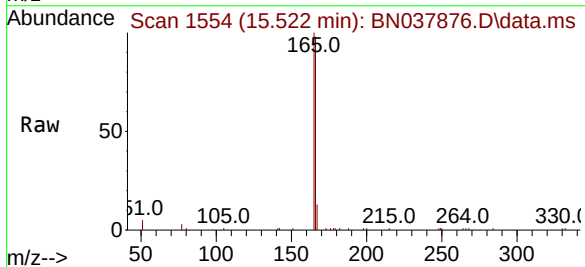
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

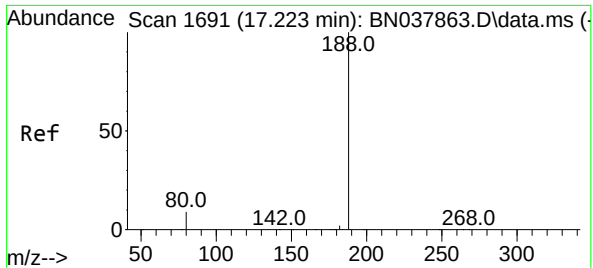
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.7	90.5	135.7
152	66.4	51.8	77.8



#18
Fluorene
Concen: 0.394 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.0	118.4
167	13.0	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

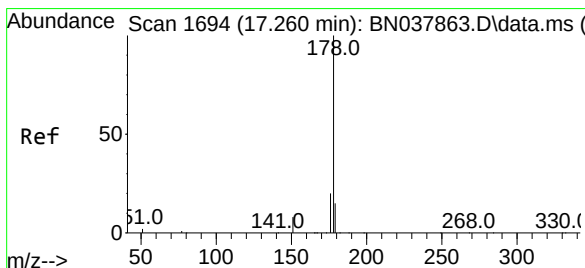
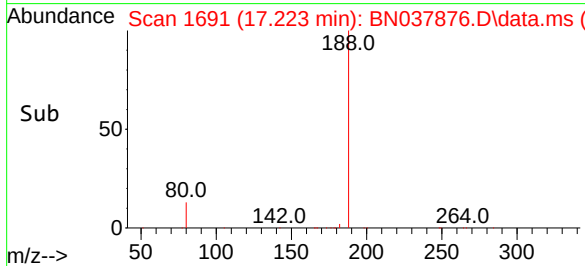
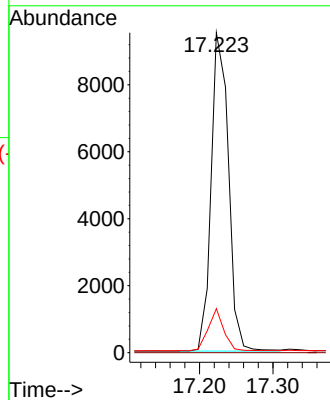
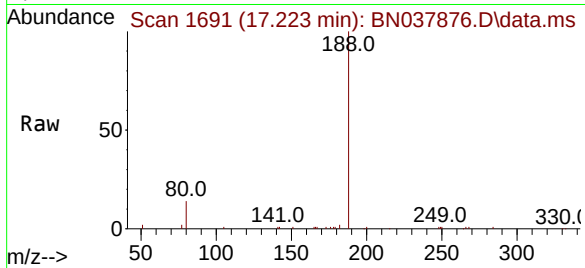
Tgt Ion:188 Resp: 15562

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.8 7.6 11.4#



#25

Phenanthrene

Concen: 0.160 ng

RT: 17.273 min Scan# 1695

Delta R.T. 0.012 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

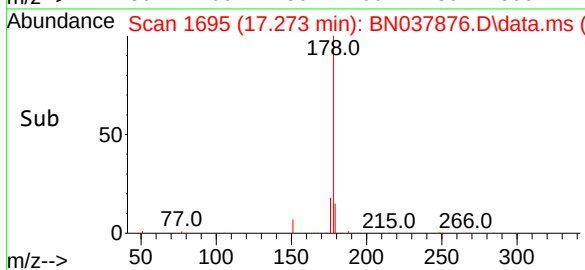
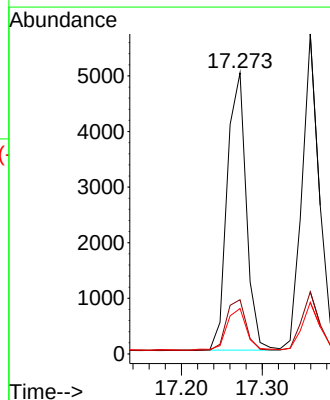
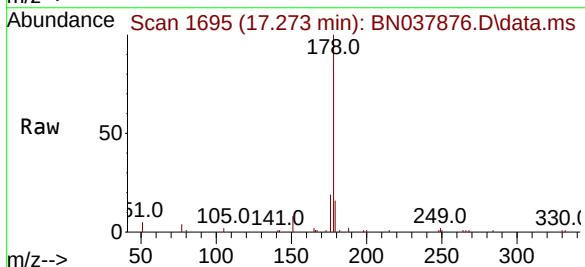
Tgt Ion:178 Resp: 8194

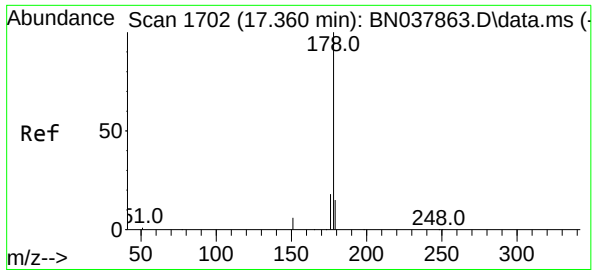
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.3 12.3 18.5

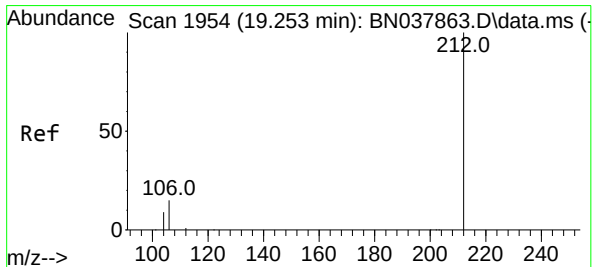
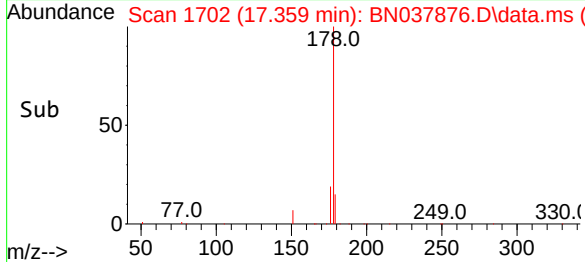
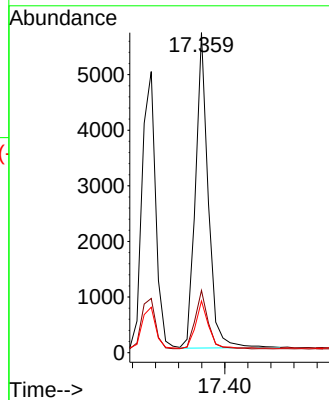
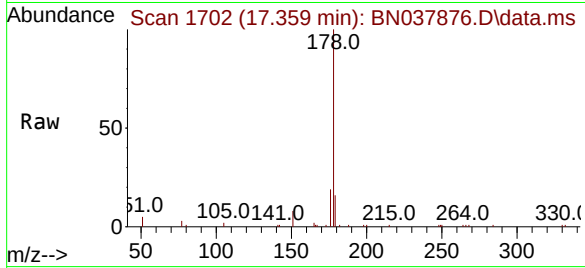




#26
Anthracene
Concen: 0.196 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

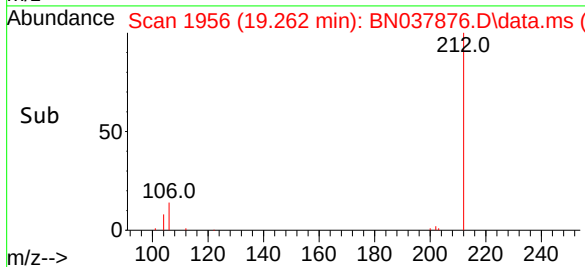
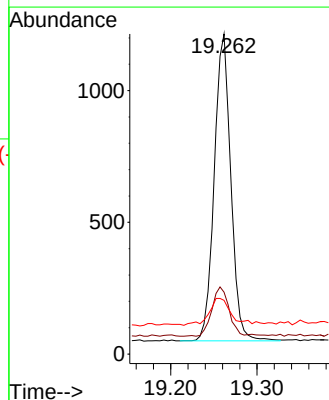
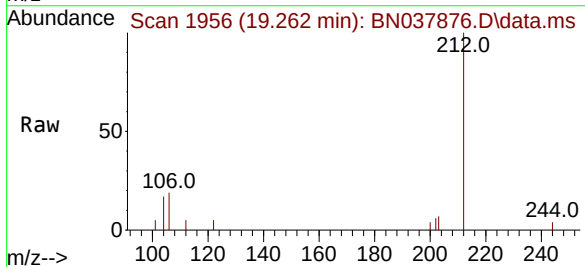
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

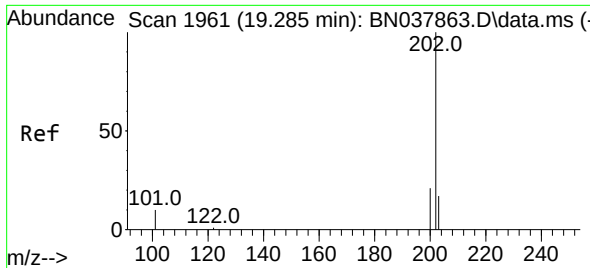
Tgt Ion:	178	Resp:	8688
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.2	12.3	18.5



#27
Fluoranthene-d10
Concen: 0.040 ng
RT: 19.262 min Scan# 1956
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:	212	Resp:	1557
Ion	Ratio	Lower	Upper
212	100		
106	16.6	12.6	19.0
104	12.0	7.4	11.0

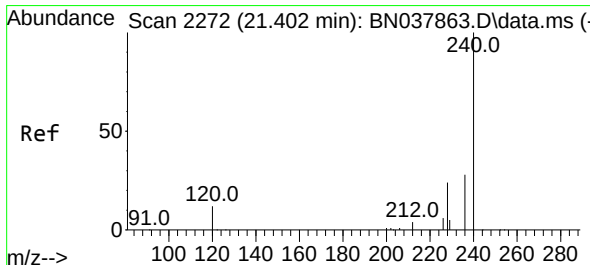
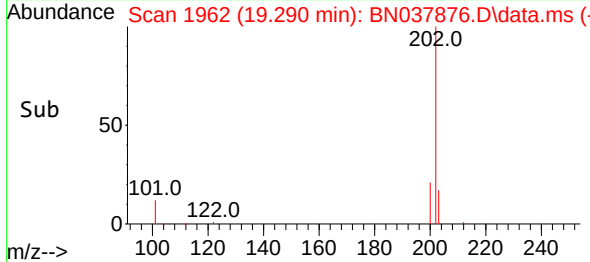
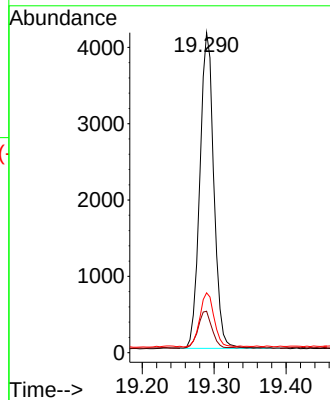
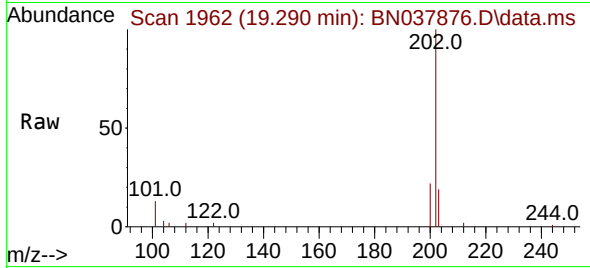




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.290 min Scan# 1962
Delta R.T. 0.005 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

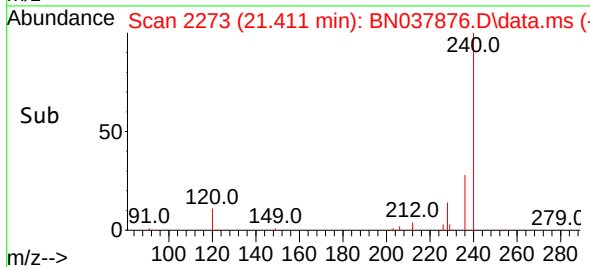
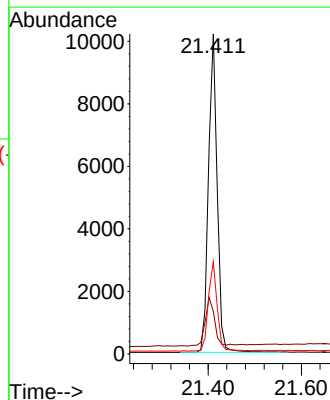
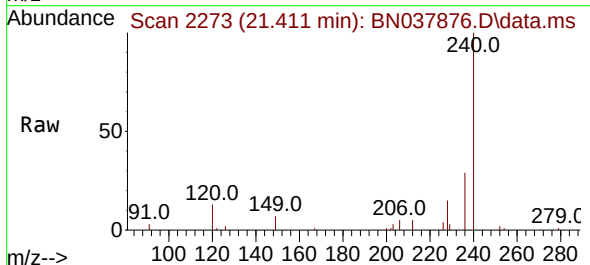
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

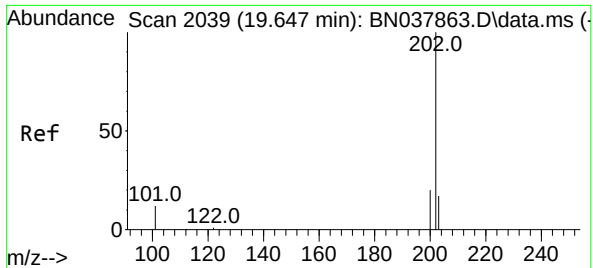
Tgt Ion:	202	Resp:	5581
Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.3	13.9
203	17.5	13.6	20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:	240	Resp:	13258
Ion	Ratio	Lower	Upper
240	100		
120	13.2	11.4	17.2
236	28.8	23.0	34.6

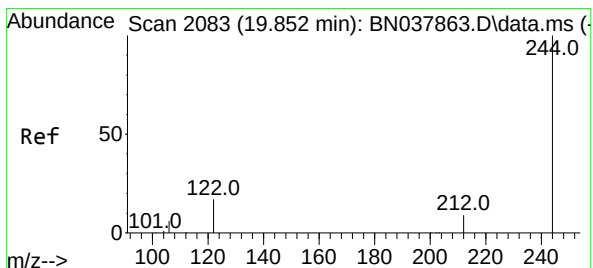
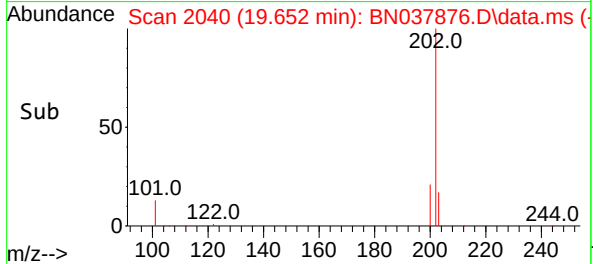
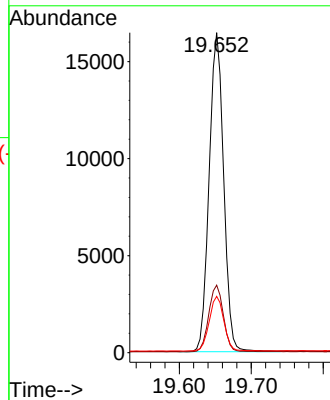
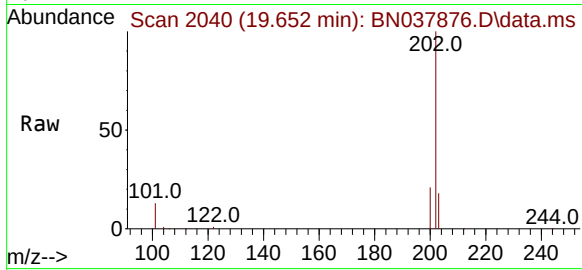




#30
Pyrene
Concen: 0.438 ng
RT: 19.652 min Scan# 2039
Delta R.T. 0.005 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

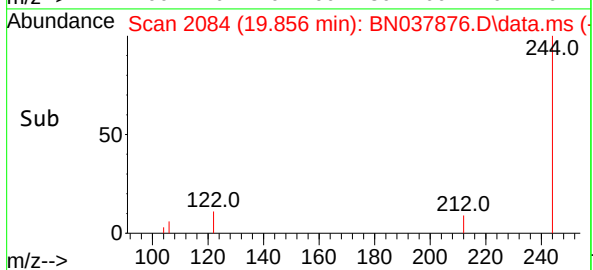
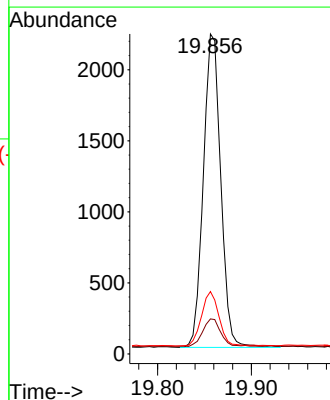
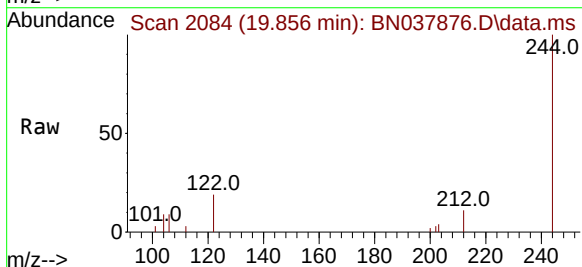
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

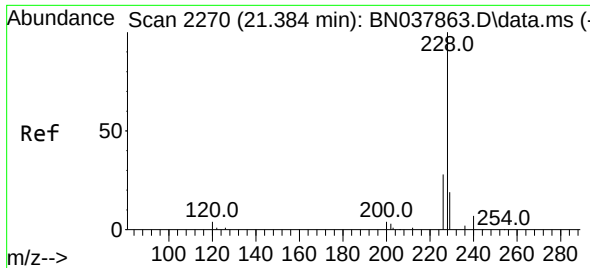
Tgt Ion:	202	Resp:	22911
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.7	25.1
203	17.5	14.2	21.4



#31
Terphenyl-d14
Concen: 0.108 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion:	244	Resp:	2854
Ion Ratio	Lower	Upper	
244	100		
212	10.9	7.6	11.4
122	19.5	13.9	20.9

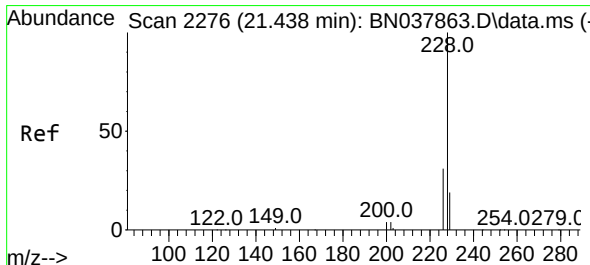
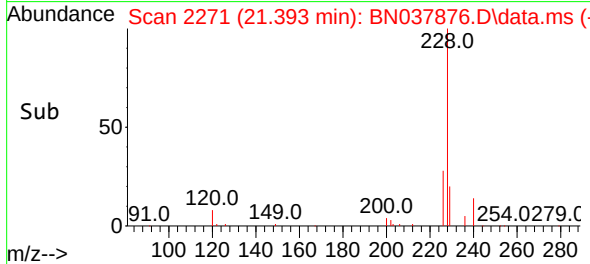
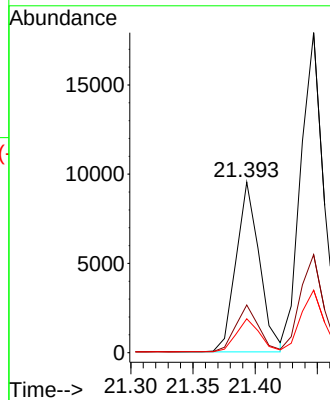
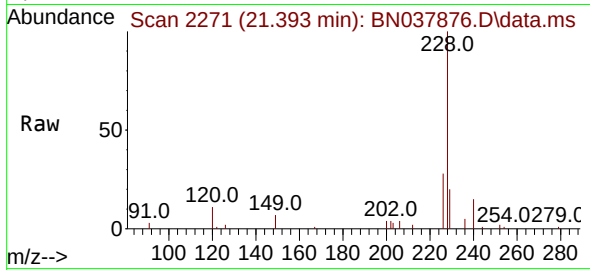




#32
Benzo(a)anthracene
Concen: 0.268 ng
RT: 21.393 min Scan# 2139
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

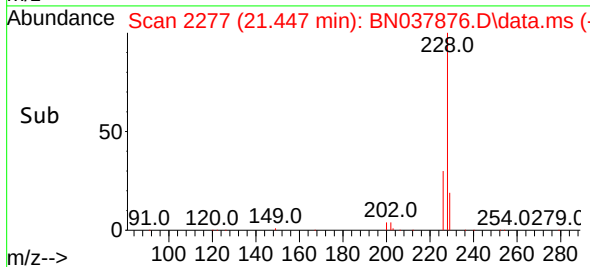
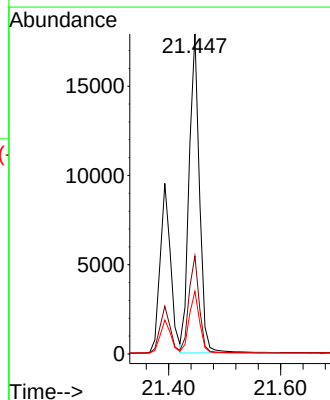
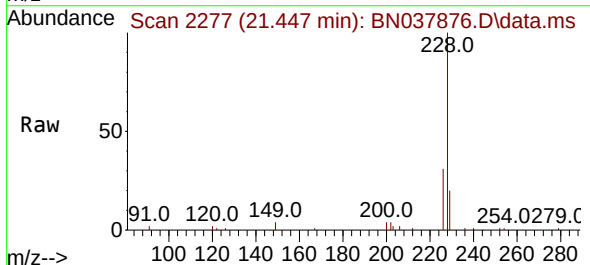
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

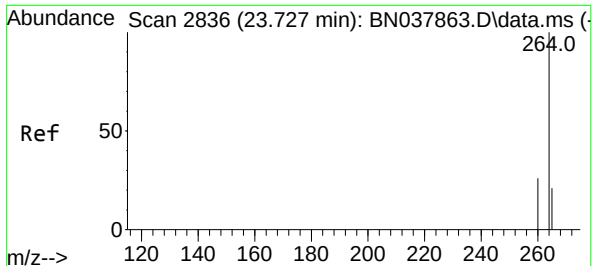
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	19.9	15.6	23.4



#33
Chrysene
Concen: 0.459 ng
RT: 21.447 min Scan# 2277
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.6	15.6	23.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.741 min Scan# 2841

Delta R.T. 0.014 min

Lab File: BN037876.D

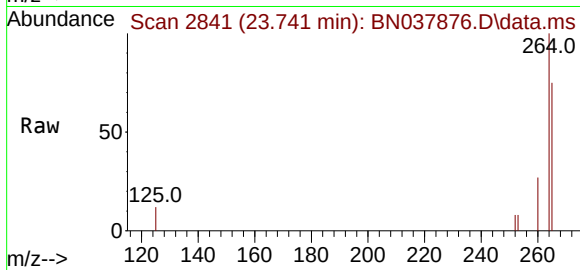
Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL



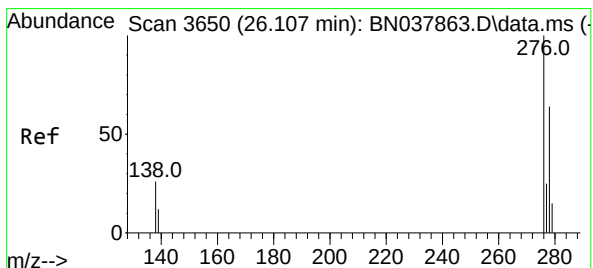
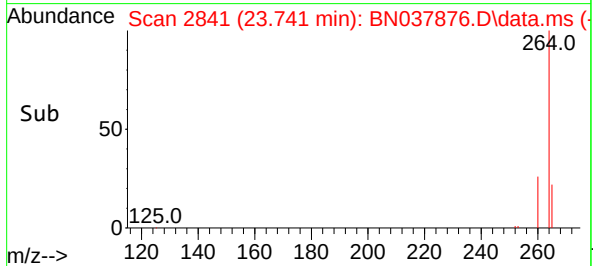
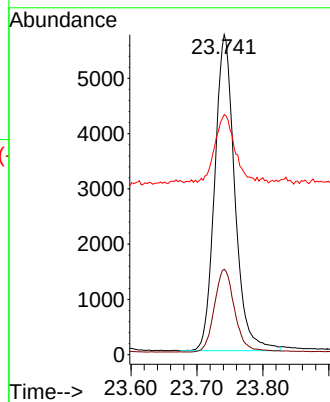
Tgt Ion:264 Resp: 12068

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 75.0 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.162 ng

RT: 26.124 min Scan# 3656

Delta R.T. 0.017 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

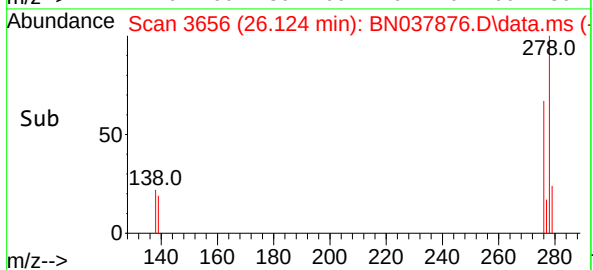
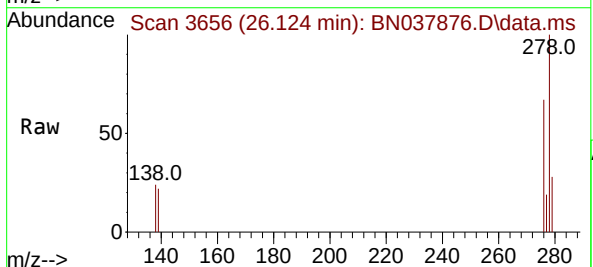
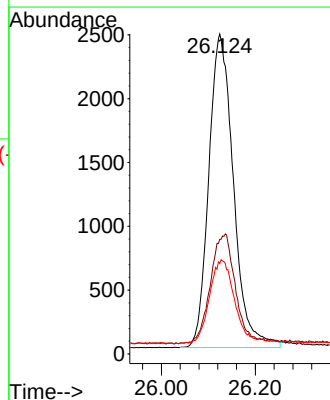
Tgt Ion:276 Resp: 8944

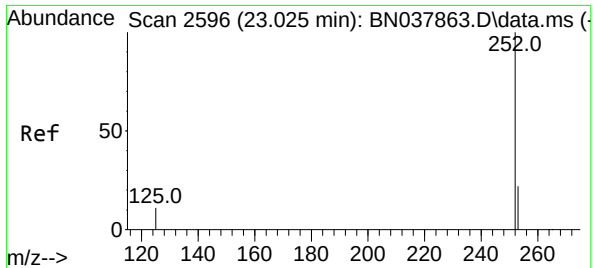
Ion Ratio Lower Upper

276 100

138 34.4 21.4 32.0#

277 26.4 20.3 30.5

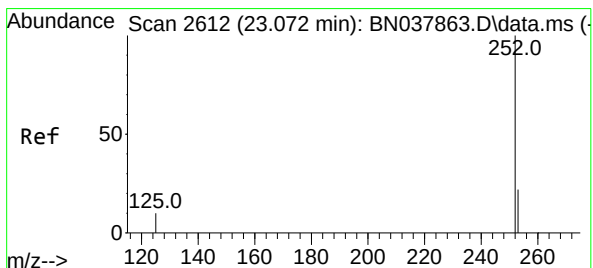
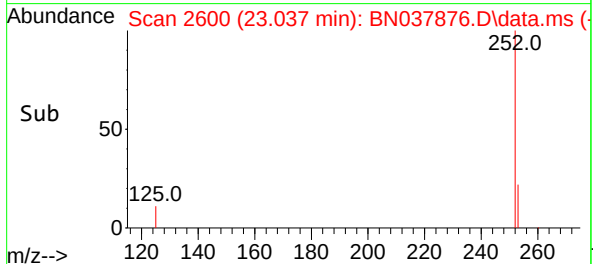
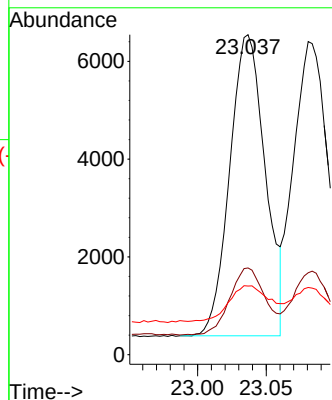
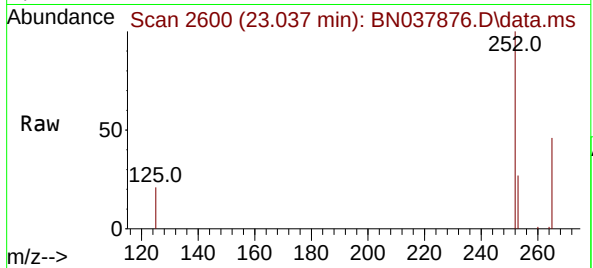




#37
Benzo(b)fluoranthene
Concen: 0.213 ng
RT: 23.037 min Scan# 21
Delta R.T. 0.012 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

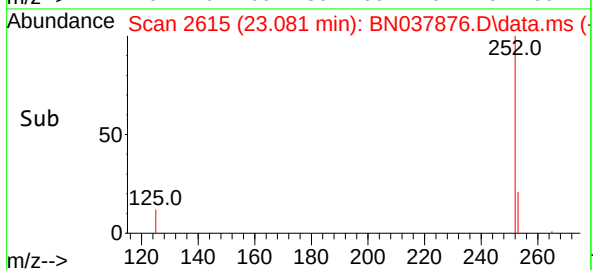
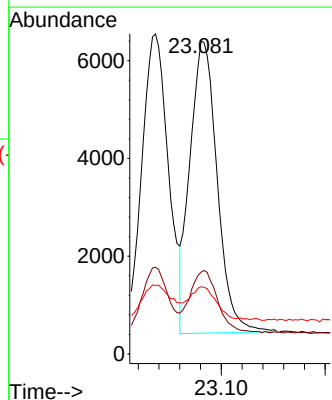
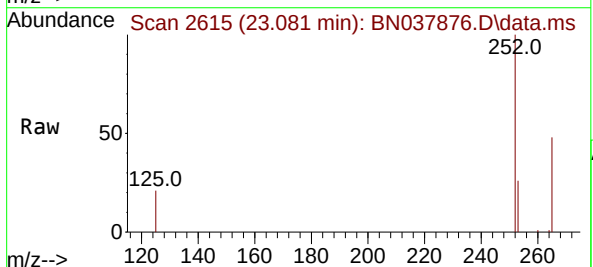
Instrument :
BNA_N
ClientSampleId :
WP0925-RR-PAH-WPDL

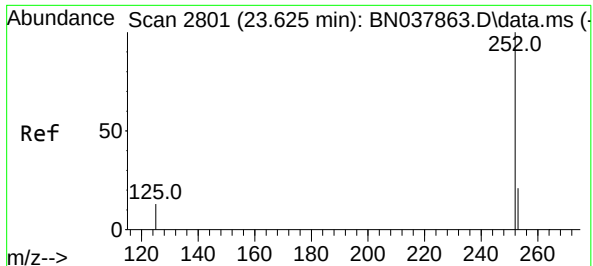
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.4	29.0
125	21.4	13.0	19.4#



#38
Benzo(k)fluoranthene
Concen: 0.207 ng
RT: 23.081 min Scan# 2615
Delta R.T. 0.009 min
Lab File: BN037876.D
Acq: 24 Sep 2025 15:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	19.5	29.3
125	21.5	13.0	19.4#





#39

Benzo(a)pyrene

Concen: 0.166 ng

RT: 23.639 min Scan# 21

Delta R.T. 0.015 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL

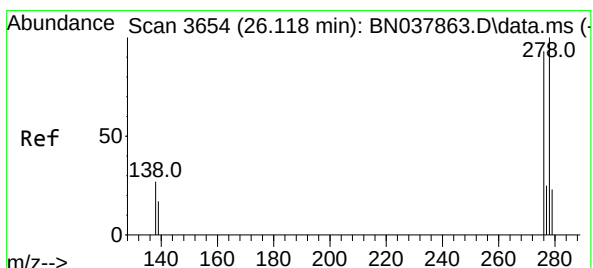
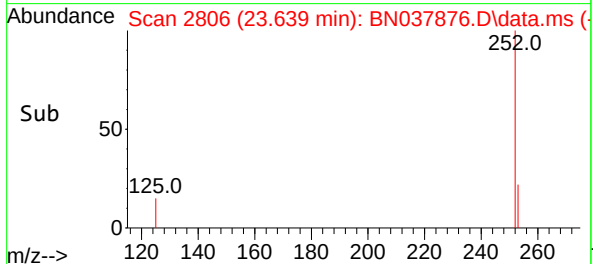
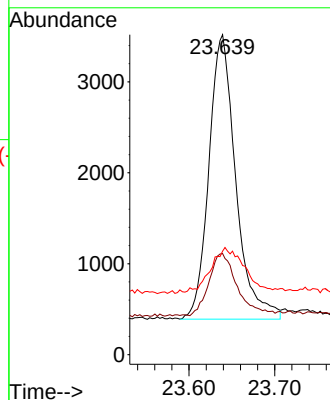
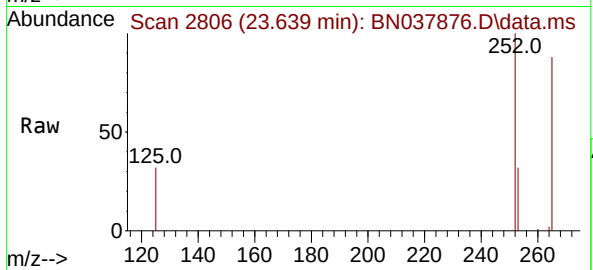
Tgt Ion:252 Resp: 6821

Ion Ratio Lower Upper

252 100

253 31.6 20.6 30.8#

125 32.3 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 26.139 min Scan# 3661

Delta R.T. 0.020 min

Lab File: BN037876.D

Acq: 24 Sep 2025 15:05

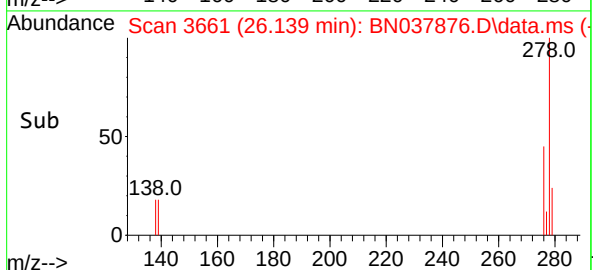
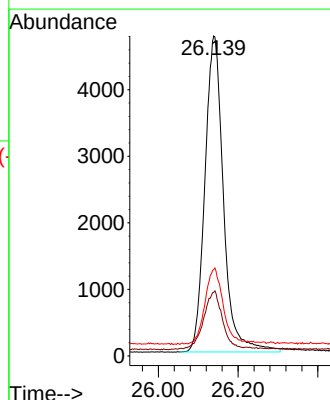
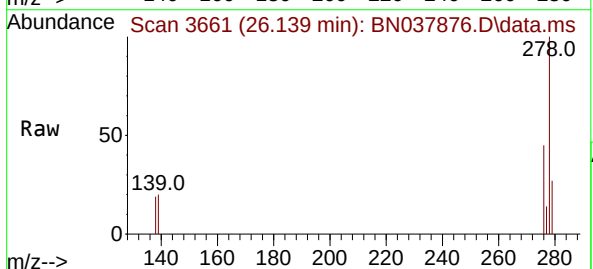
Tgt Ion:278 Resp: 15355

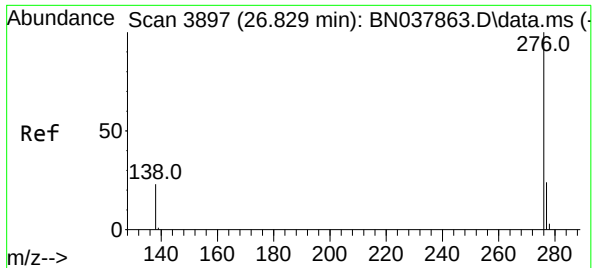
Ion Ratio Lower Upper

278 100

139 19.9 15.4 23.2

279 27.1 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.349 ng

RT: 26.849 min Scan# 3904

Delta R.T. 0.020 min

Lab File: BN037876.D

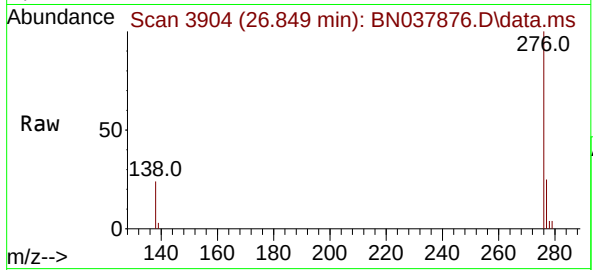
Acq: 24 Sep 2025 15:05

Instrument :

BNA_N

ClientSampleId :

WP0925-RR-PAH-WPDL



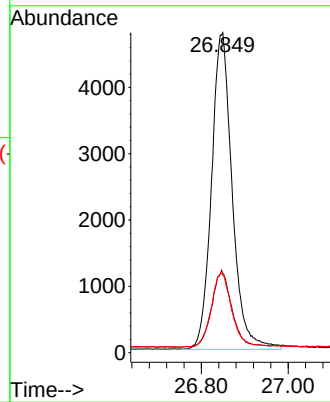
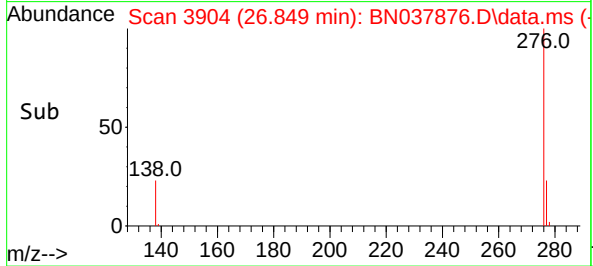
Tgt Ion:276 Resp: 15790

Ion Ratio Lower Upper

276 100

277 24.9 20.2 30.4

138 24.2 19.8 29.8





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.15	
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136	0.108	16.50		
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037861.D
 Acq On : 23 Sep 2025 12:13
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

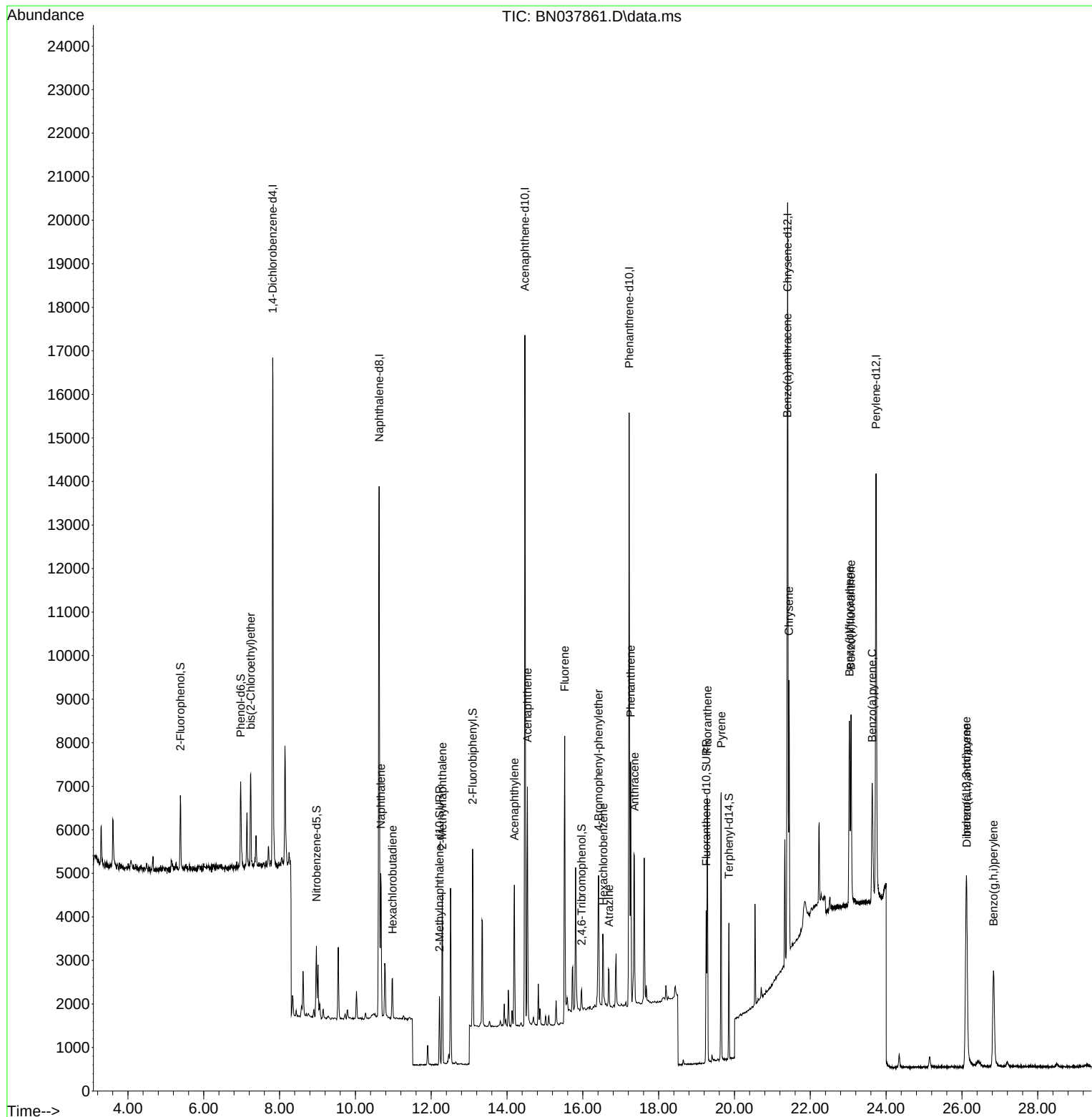
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13854	0.400	ng	0.00
35) Perylene-d12	23.736	264	13928	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	1382	0.103	ng	0.00
5) Phenol-d6	6.973	99	1742	0.099	ng	0.00
8) Nitrobenzene-d5	8.971	82	1212	0.098	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	2089	0.093	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	309	0.091	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	3478	0.101	ng	0.00
27) Fluoranthene-d10	19.253	212	3783	0.087	ng	0.00
31) Terphenyl-d14	19.852	244	2766	0.100	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.240	93	1658	0.102	ng	99
9) Naphthalene	10.669	128	4483	0.100	ng	96
10) Hexachlorobutadiene	10.979	225	802	0.105	ng	# 96
12) 2-Methylnaphthalene	12.293	142	2749	0.094	ng	98
16) Acenaphthylene	14.195	152	3557	0.093	ng	98
17) Acenaphthene	14.537	154	2644	0.098	ng	99
18) Fluorene	15.523	166	3048	0.093	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	1084	0.097	ng	96
22) Hexachlorobenzene	16.540	284	1361	0.100	ng	99
23) Atrazine	16.689	200	772	0.090	ng	# 95
25) Phenanthrene	17.260	178	5595	0.099	ng	99
26) Anthracene	17.360	178	4446	0.091	ng	99
28) Fluoranthene	19.285	202	5493	0.088	ng	99
30) Pyrene	19.647	202	5458	0.100	ng	99
32) Benzo(a)anthracene	21.393	228	4766	0.098	ng	99
33) Chrysene	21.438	228	5223	0.100	ng	99
36) Indeno(1,2,3-cd)pyrene	26.113	276	5972	0.094	ng	98
37) Benzo(b)fluoranthene	23.031	252	5567	0.093	ng	# 78
38) Benzo(k)fluoranthene	23.075	252	5642	0.093	ng	# 80
39) Benzo(a)pyrene	23.630	252	4368	0.092	ng	# 71
40) Dibenzo(a,h)anthracene	26.127	278	4476	0.090	ng	# 85
41) Benzo(g,h,i)perylene	26.832	276	4900	0.094	ng	93

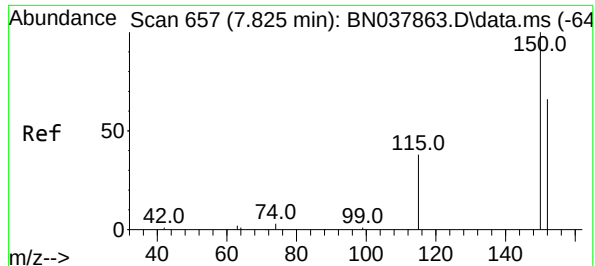
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Data File : BN037861.D
Acq On : 23 Sep 2025 12:13
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

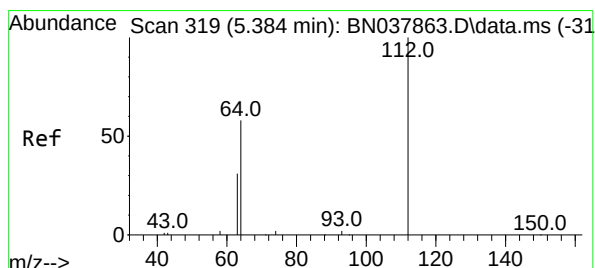
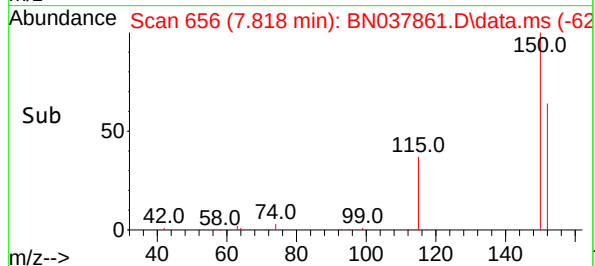
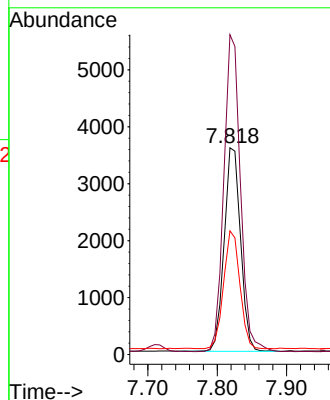
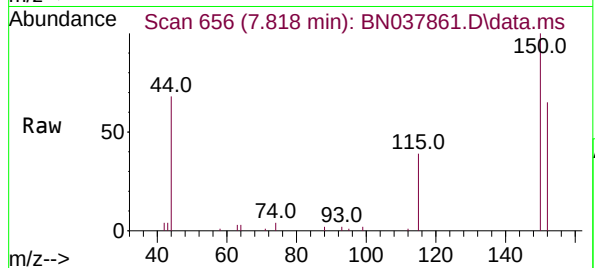




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

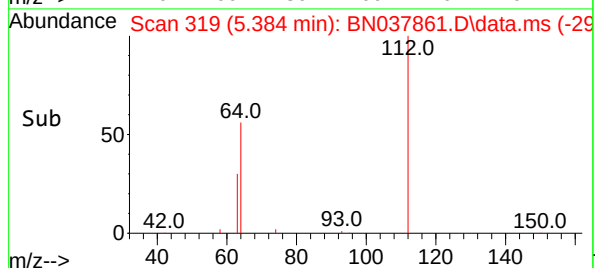
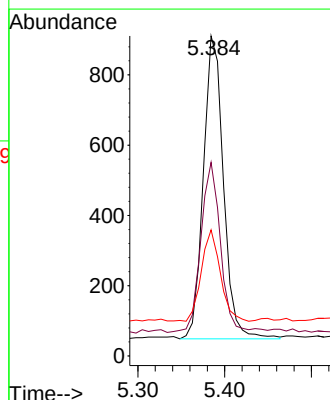
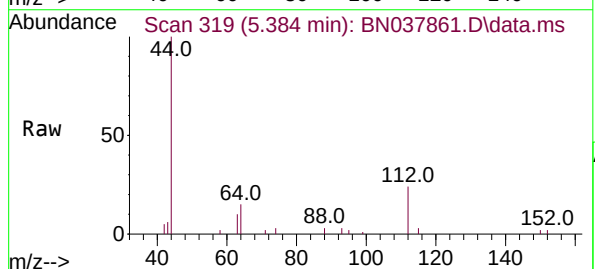
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

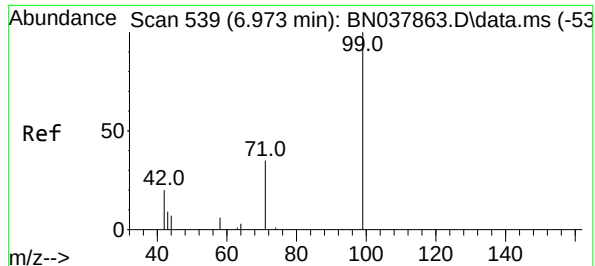
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 59.9 47.4 71.0



#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:112 Resp: 1382
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 28.7 24.9 37.3

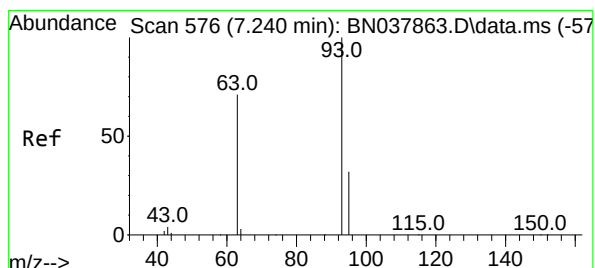
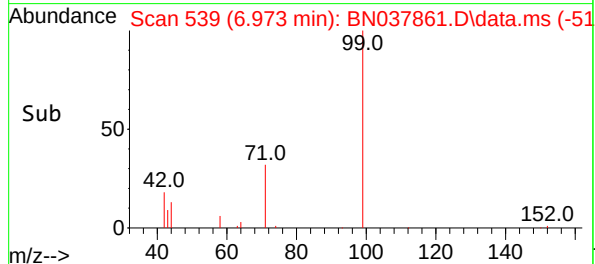
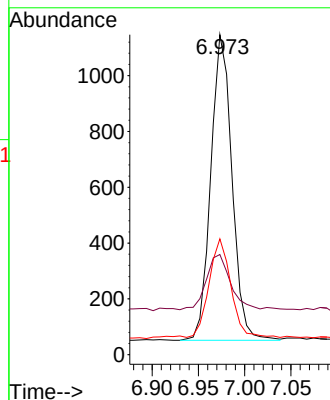
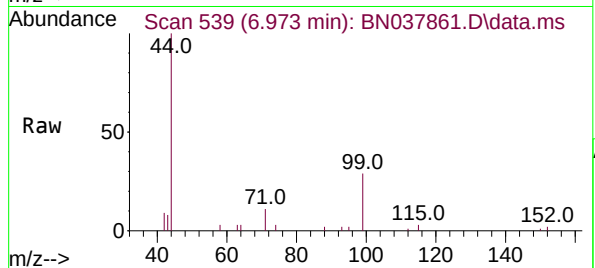




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

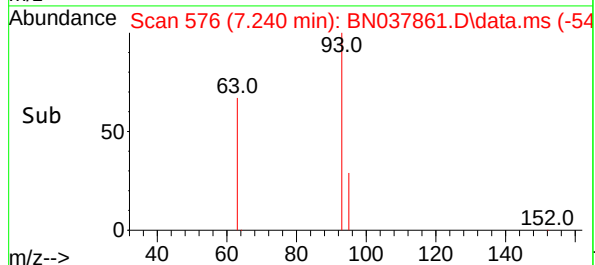
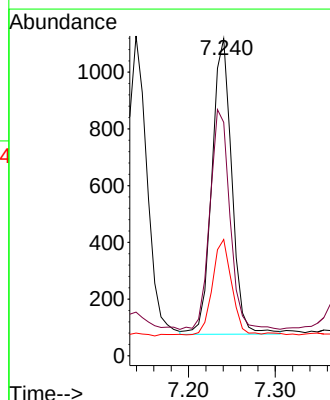
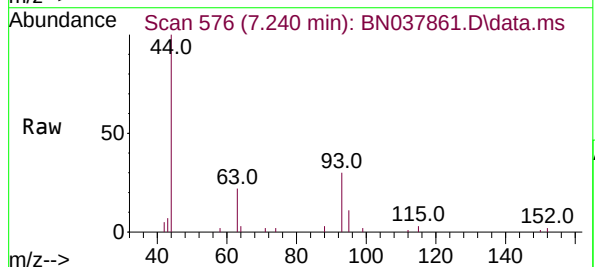
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

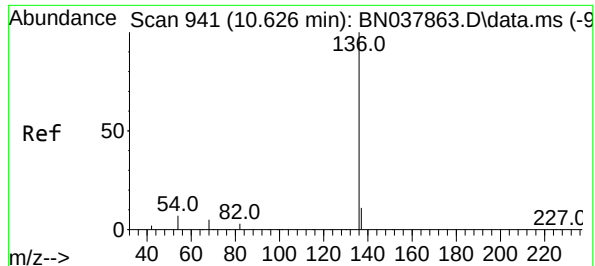
Tgt Ion:	99	Resp:	1742
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	93	Resp:	1658
Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.1	90.1
95	31.0	25.4	38.2

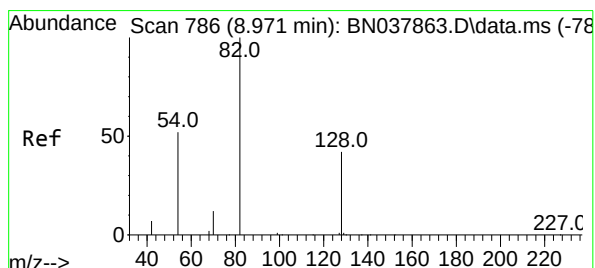
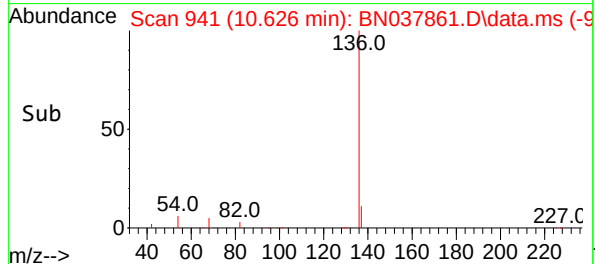
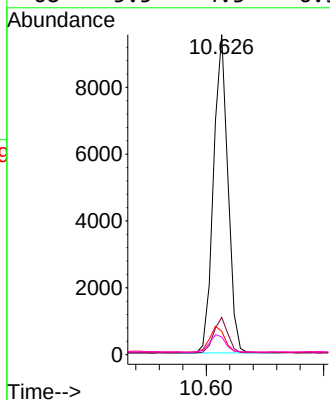
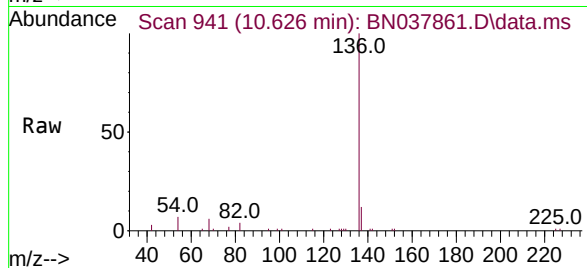




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

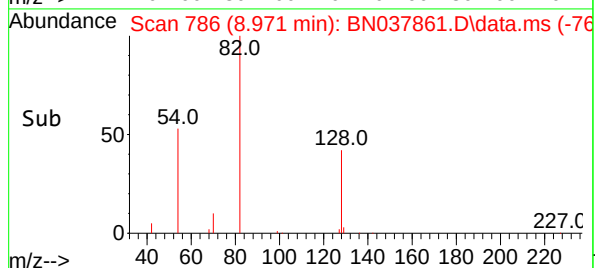
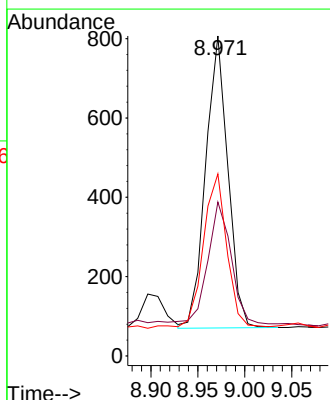
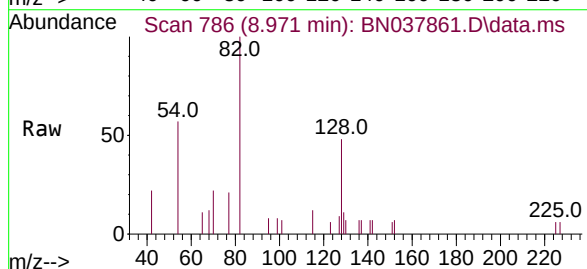
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

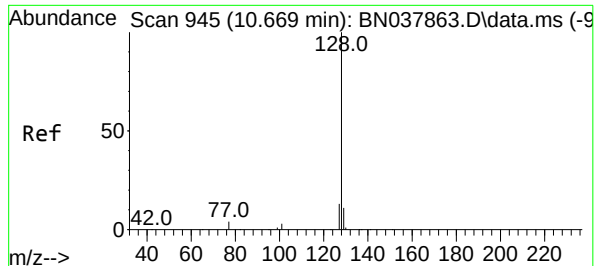
Tgt Ion:	136	Resp:	16223
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	82	Resp:	1212
Ion	Ratio	Lower	Upper
82	100		
128	48.1	34.8	52.2
54	56.9	42.2	63.2

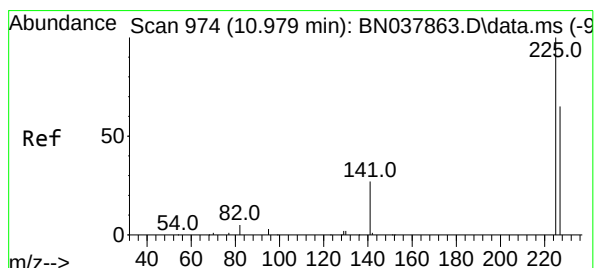
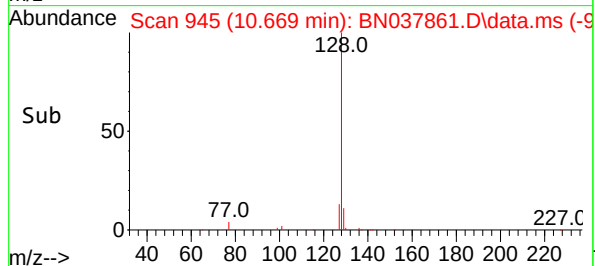
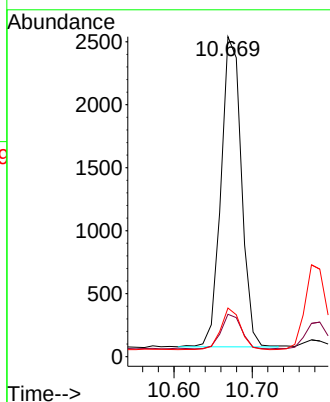
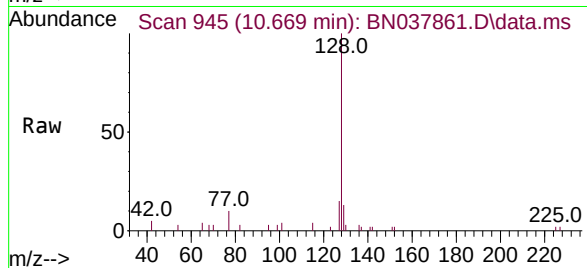




#9
Naphthalene
Concen: 0.100 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

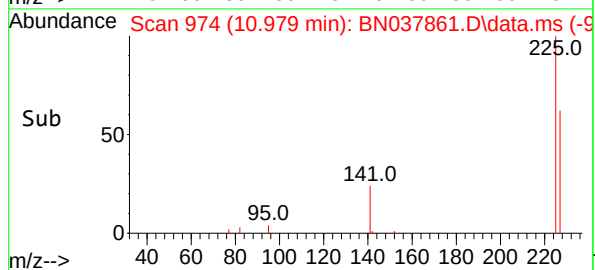
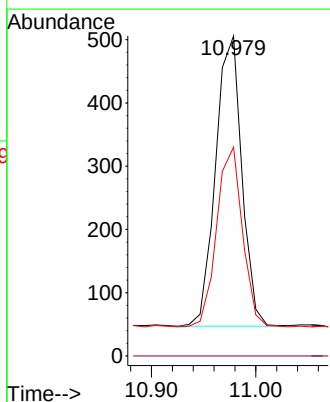
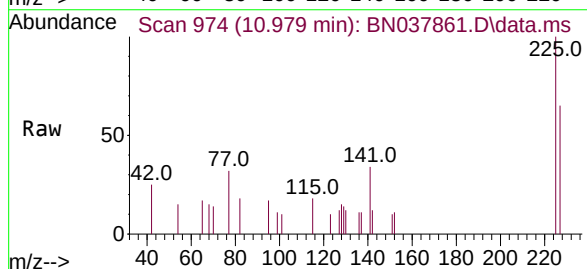
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BNA_N
ClientSampleId :
SSTDICC0.1

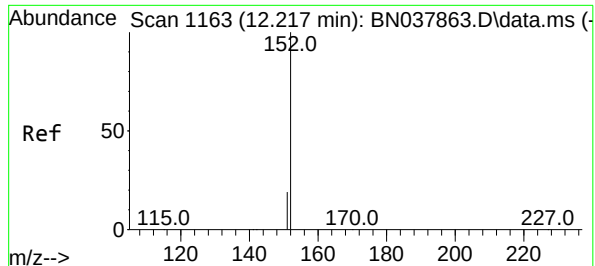
Tgt Ion:	128	Resp:	4483
Ion	Ratio	Lower	Upper
128	100		
129	13.2	9.2	13.8
127	15.2	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.105 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	225	Resp:	802
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.8	51.4	77.2

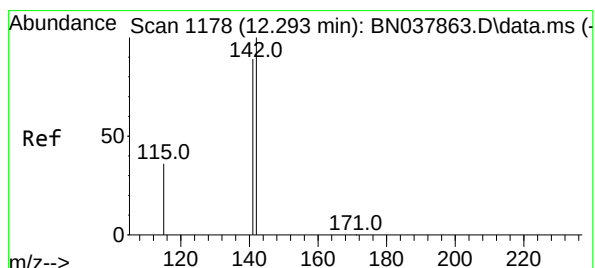
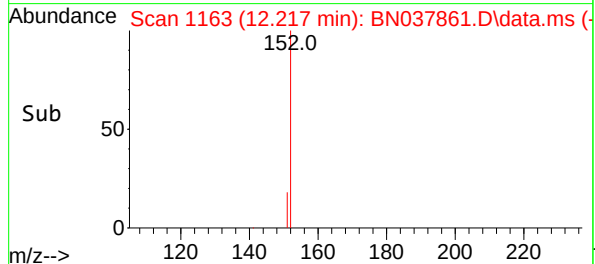
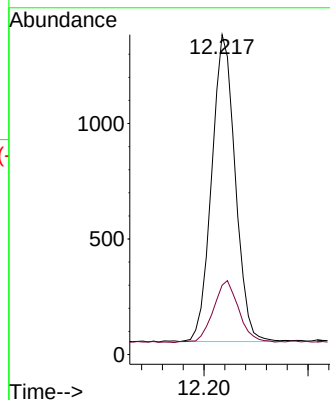
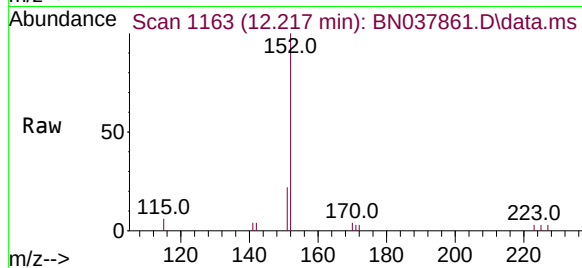




#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

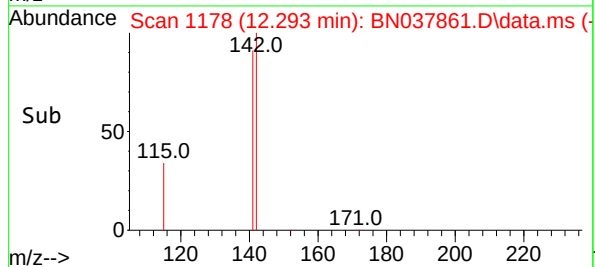
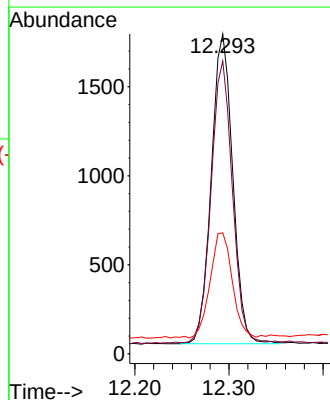
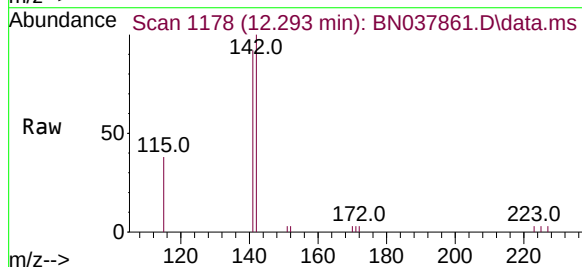
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BNA_N
ClientSampleId :
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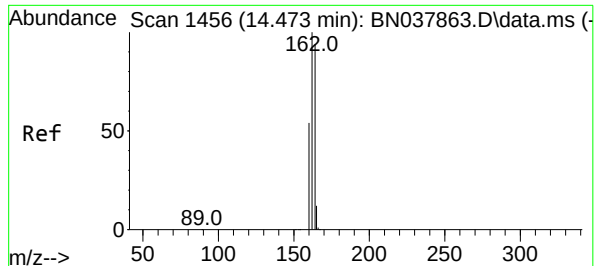
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:142 Resp: 2749
Ion Ratio Lower Upper
142 100
141 91.5 71.2 106.8
115 37.8 29.7 44.5

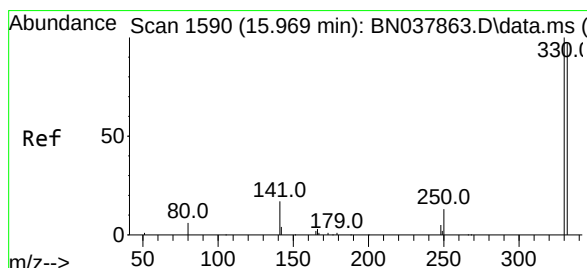
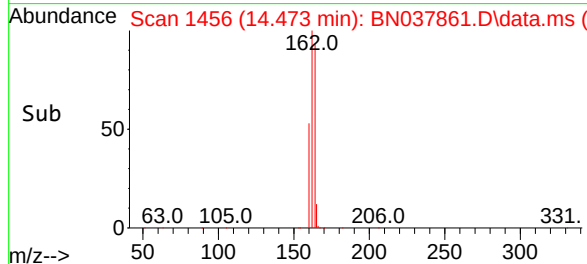
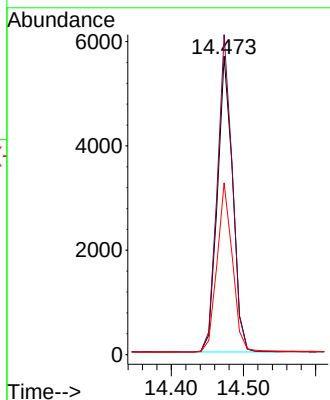
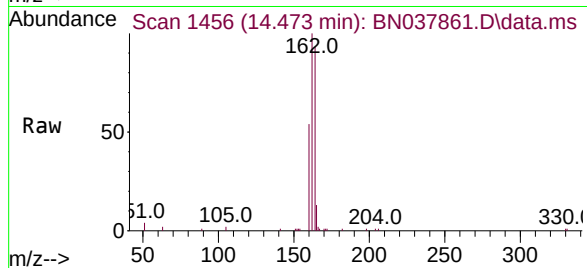




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

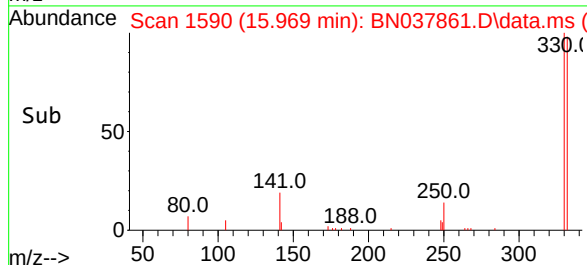
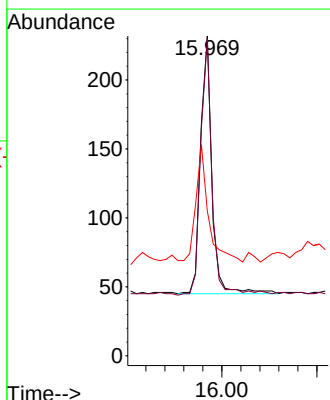
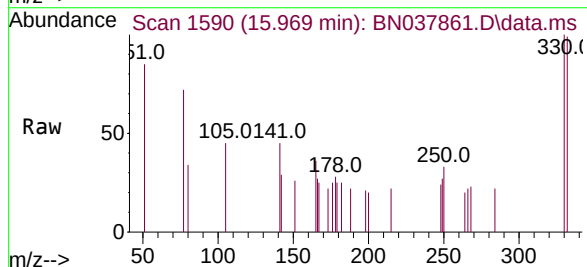
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BNA_N
ClientSampleId :
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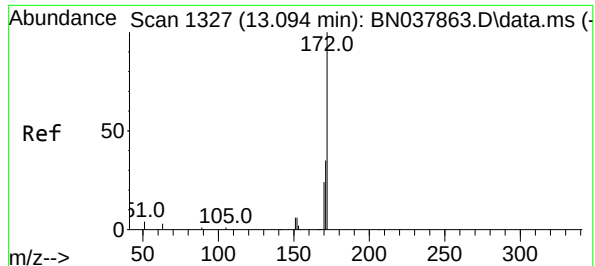
Tgt Ion:164 Resp: 8379
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.091 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:330 Resp: 309
Ion Ratio Lower Upper
330 100
332 100.3 77.2 115.8
141 50.8 37.2 55.8

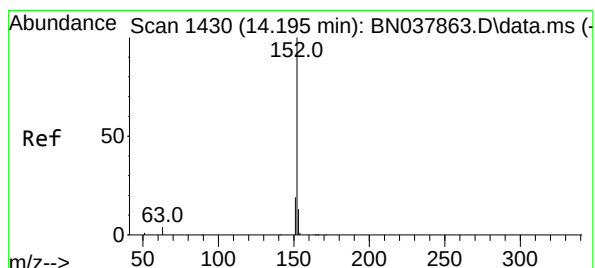
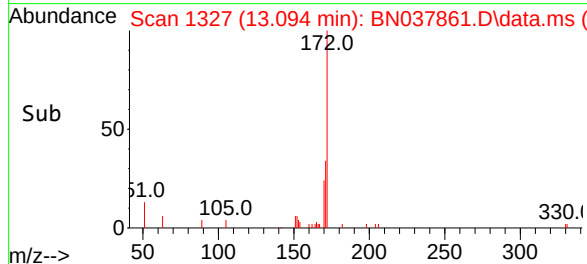
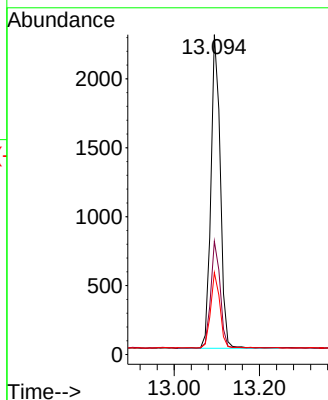
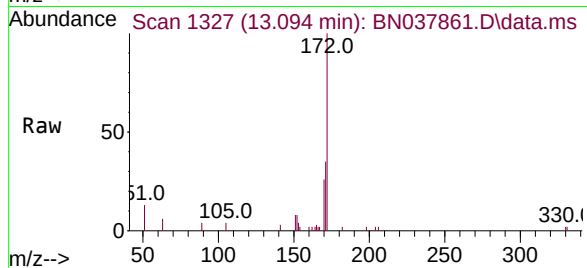




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

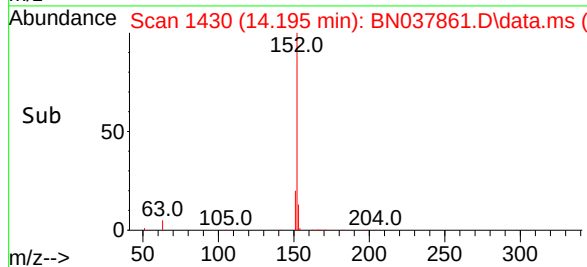
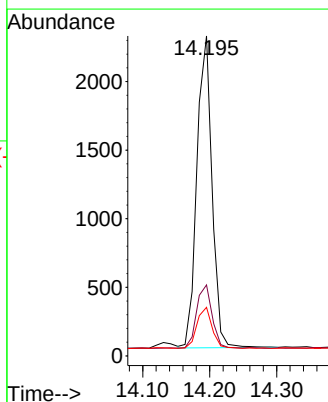
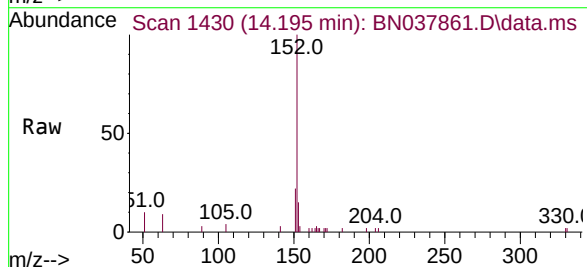
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

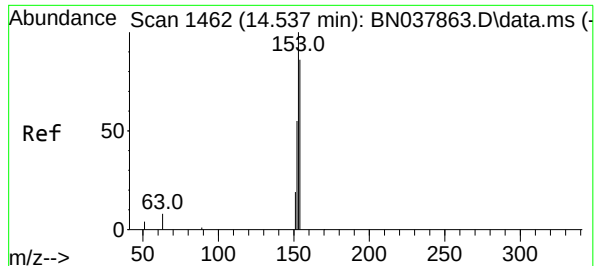
Tgt Ion:	172	Resp:	3478
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.6	43.0
170	25.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.093 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	152	Resp:	3557
Ion Ratio	Lower	Upper	
152	100		
151	21.2	15.8	23.8
153	13.2	10.5	15.7





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

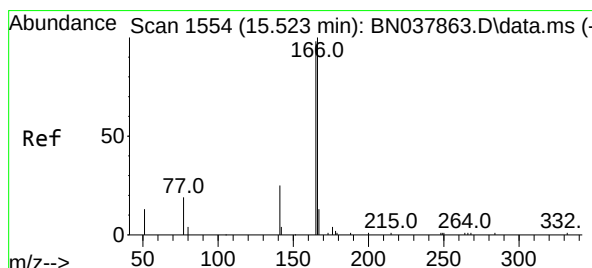
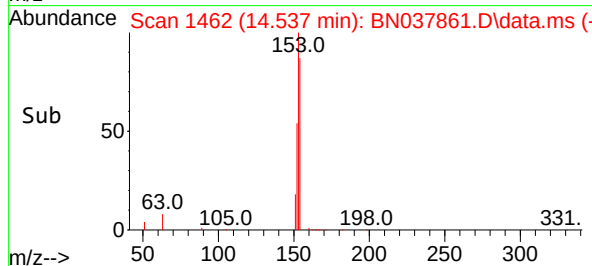
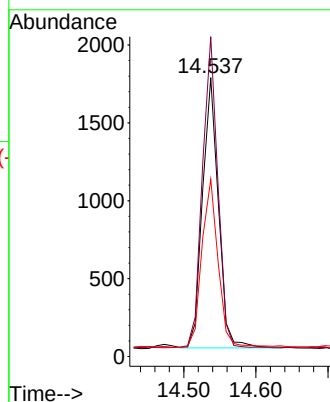
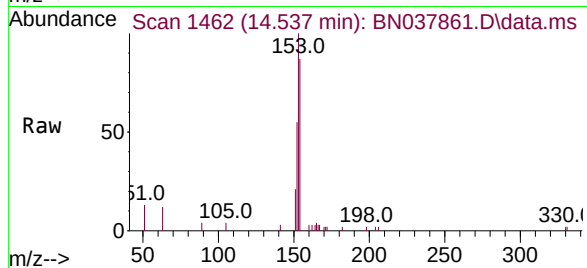
Tgt Ion:154 Resp: 2644

Ion Ratio Lower Upper

154 100

153 111.7 90.5 135.7

152 64.5 51.8 77.8



#18

Fluorene

Concen: 0.093 ng

RT: 15.523 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

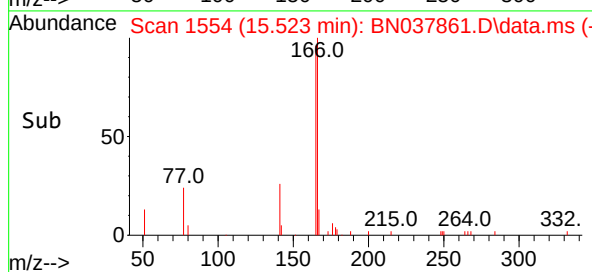
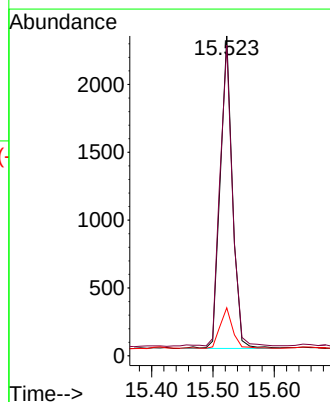
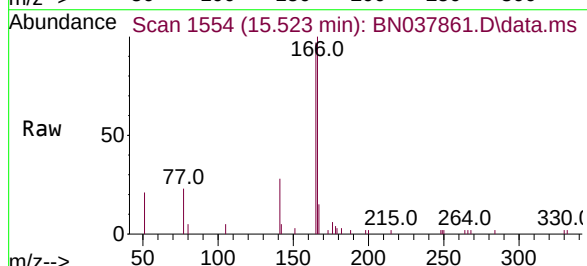
Tgt Ion:166 Resp: 3048

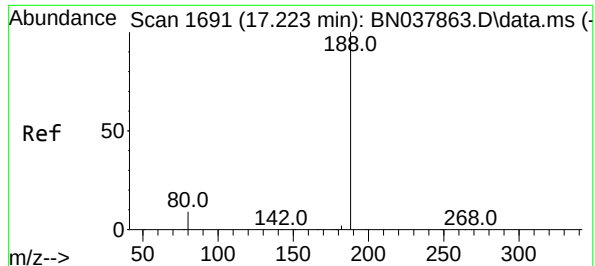
Ion Ratio Lower Upper

166 100

165 100.0 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

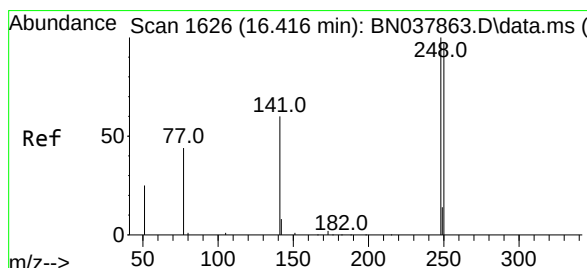
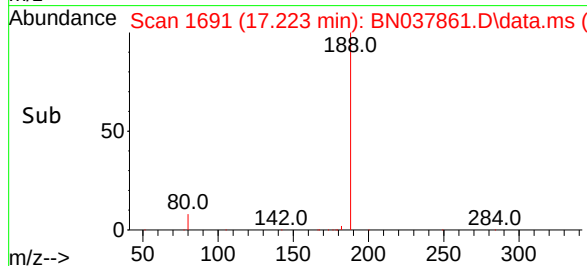
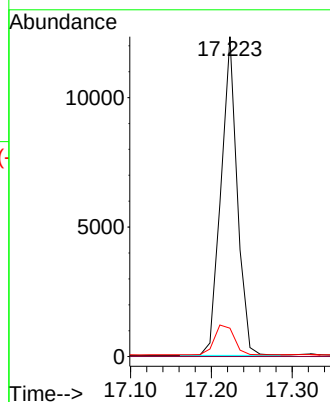
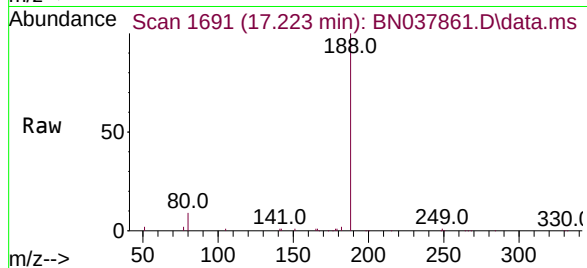
Tgt Ion:188 Resp: 17197

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.6 11.4



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

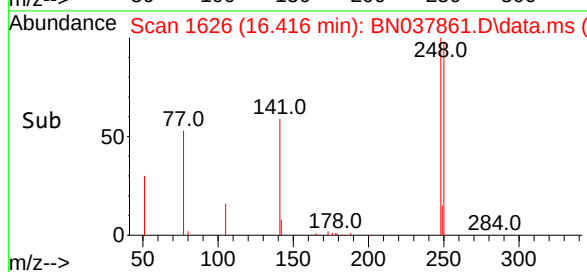
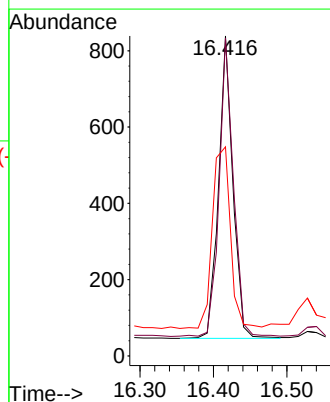
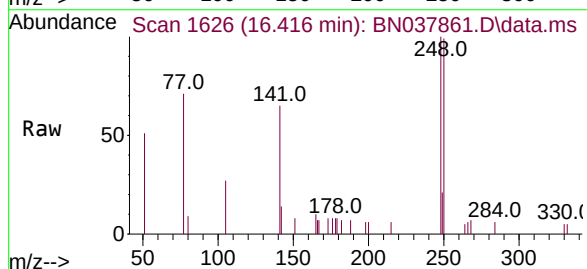
Tgt Ion:248 Resp: 1084

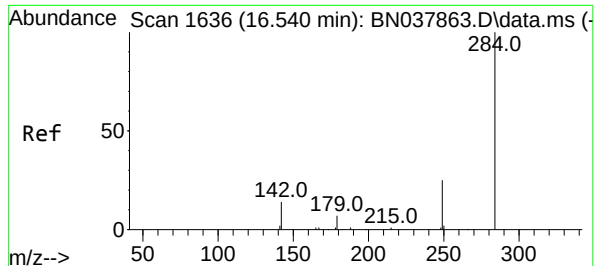
Ion Ratio Lower Upper

248 100

250 99.3 77.6 116.4

141 65.3 48.8 73.2





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

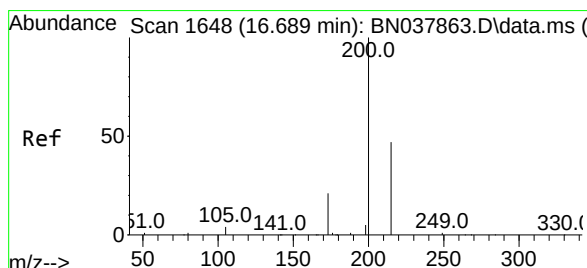
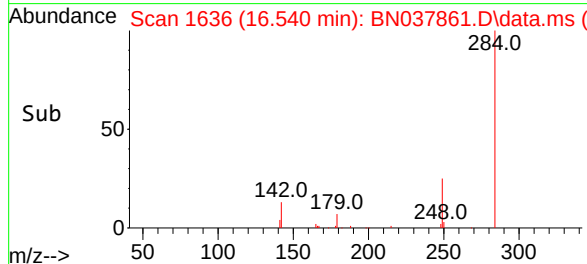
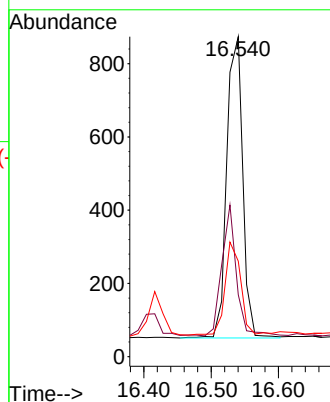
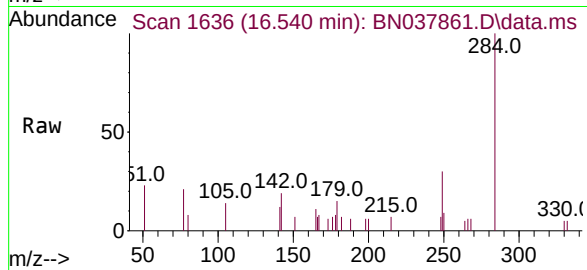
Tgt Ion:284 Resp: 1361

Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.6 23.9 35.9



#23

Atrazine

Concen: 0.090 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

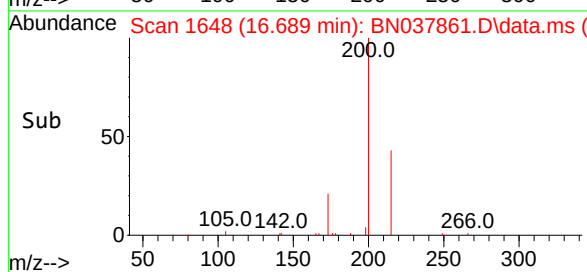
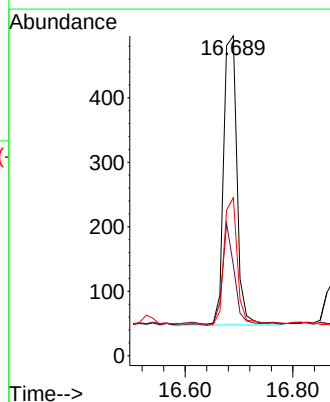
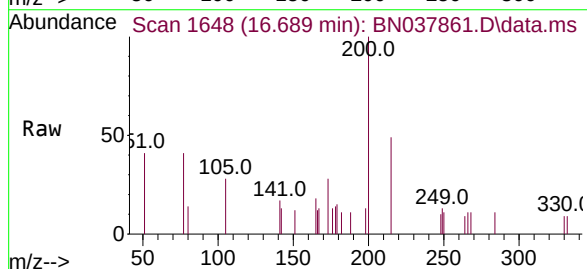
Tgt Ion:200 Resp: 772

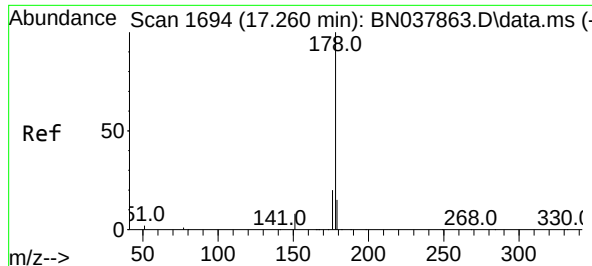
Ion Ratio Lower Upper

200 100

173 28.4 18.3 27.5

215 49.4 38.6 58.0





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

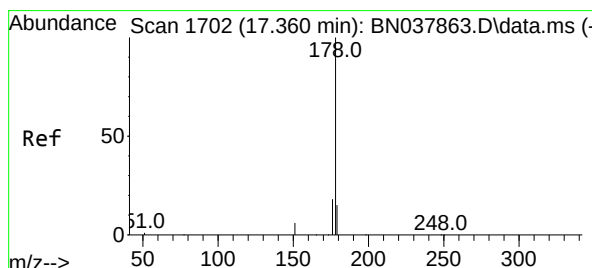
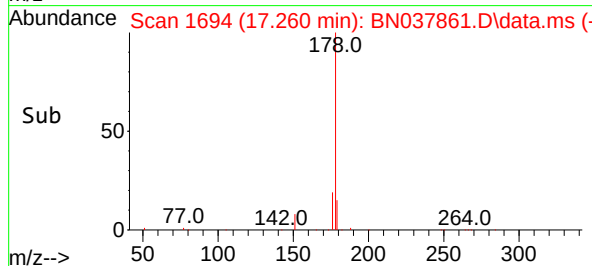
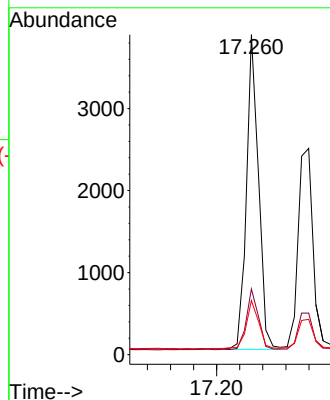
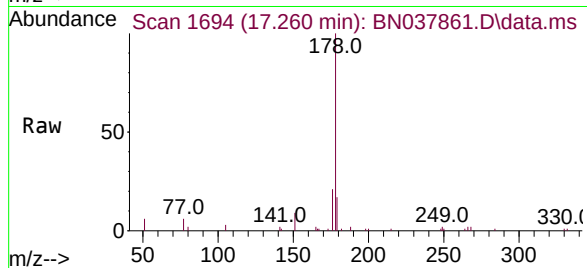
Tgt Ion:178 Resp: 5595

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 16.2 12.3 18.5



#26

Anthracene

Concen: 0.091 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

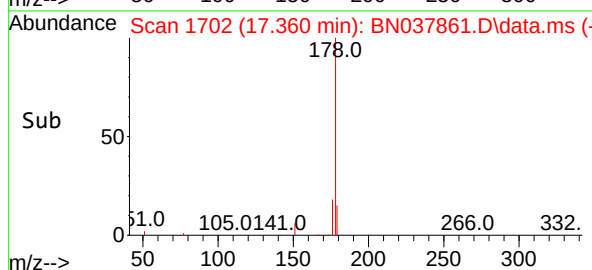
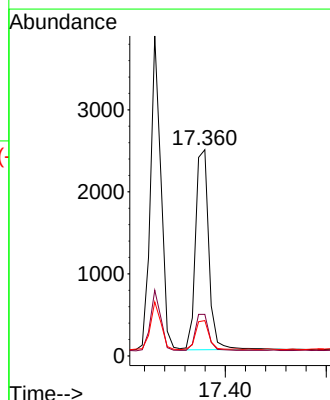
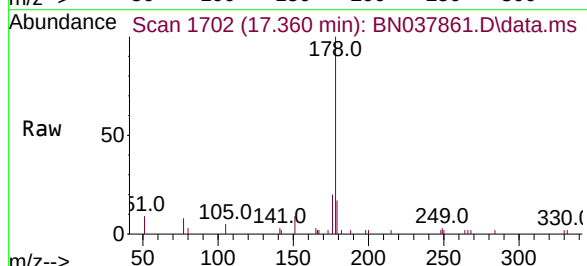
Tgt Ion:178 Resp: 4446

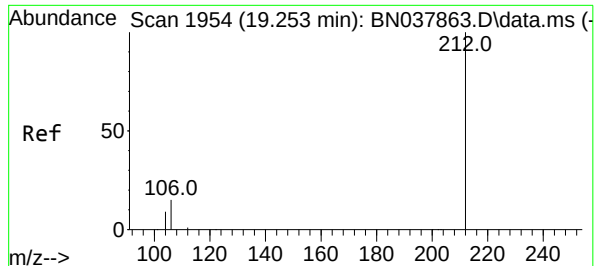
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

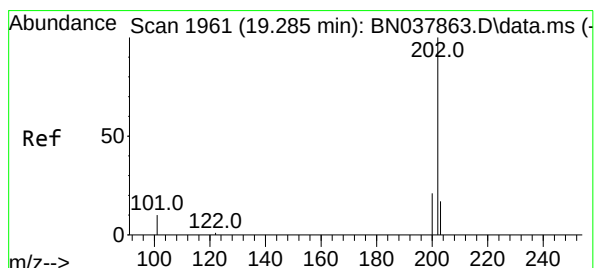
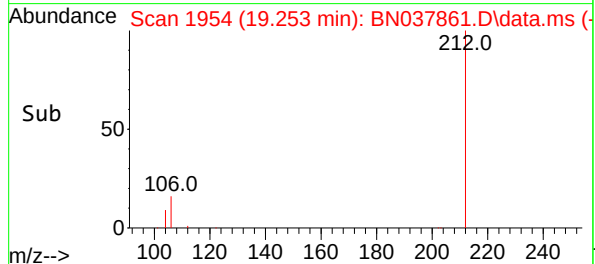
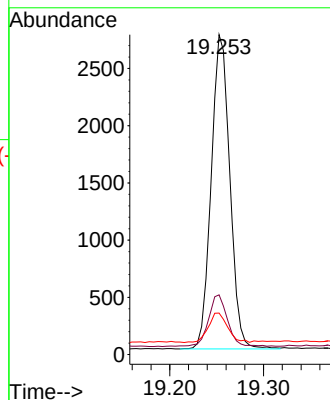
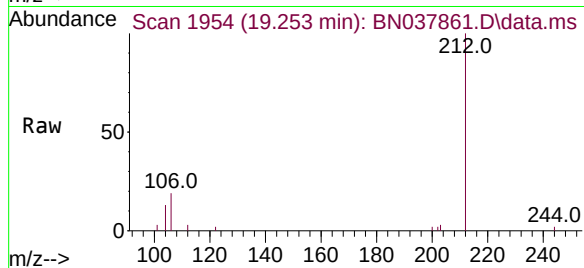
Tgt Ion:212 Resp: 3783

Ion Ratio Lower Upper

212 100

106 16.8 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.088 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

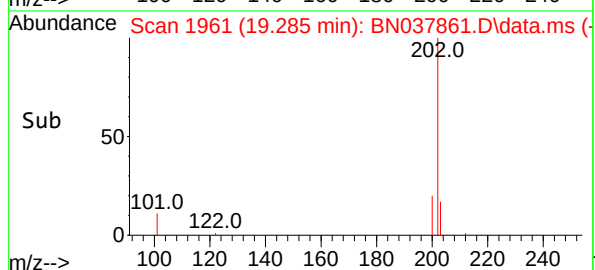
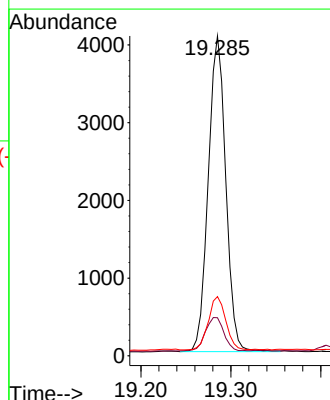
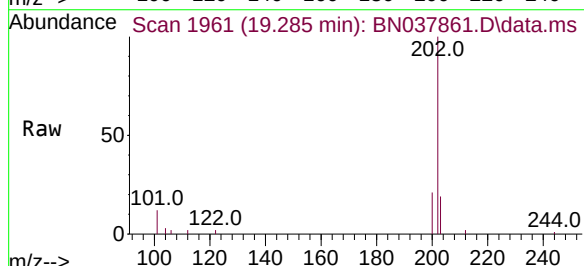
Tgt Ion:202 Resp: 5493

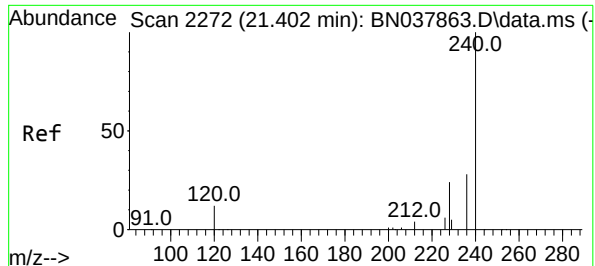
Ion Ratio Lower Upper

202 100

101 11.3 9.3 13.9

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

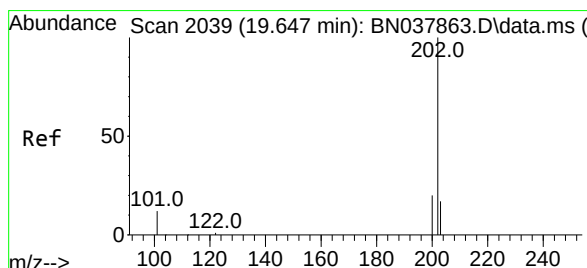
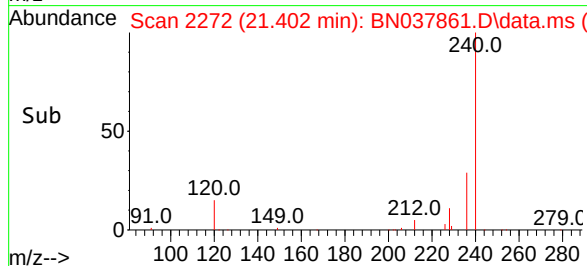
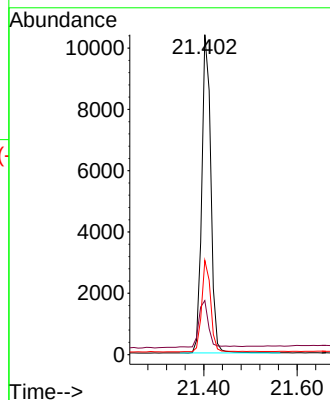
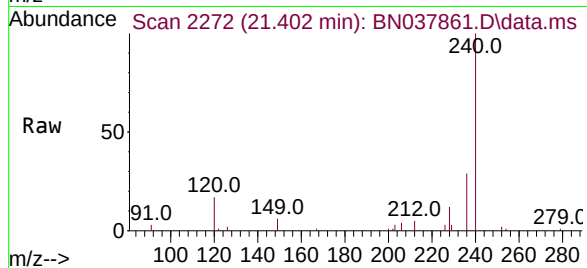
Tgt Ion:240 Resp: 13854

Ion Ratio Lower Upper

240 100

120 16.9 11.4 17.2

236 29.4 23.0 34.6



#30

Pyrene

Concen: 0.100 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

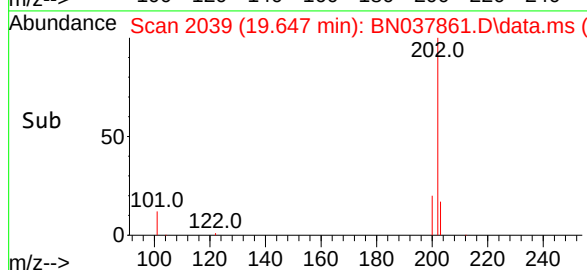
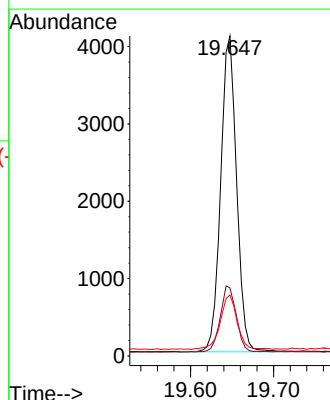
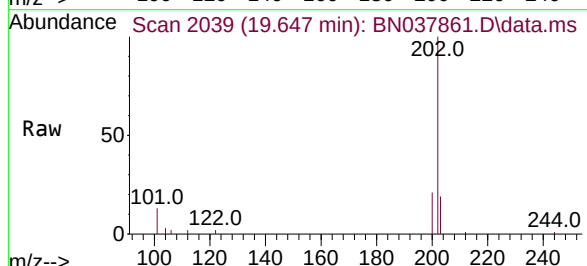
Tgt Ion:202 Resp: 5458

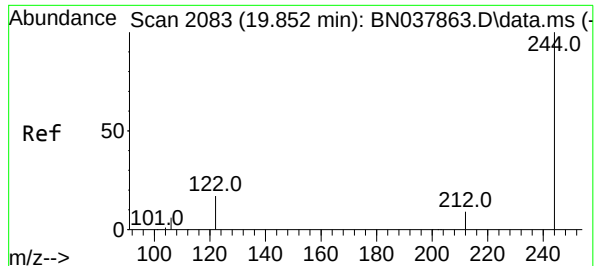
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.2 14.2 21.4

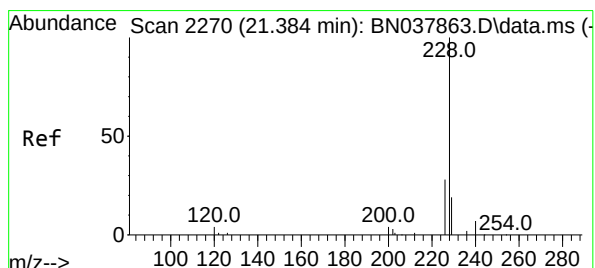
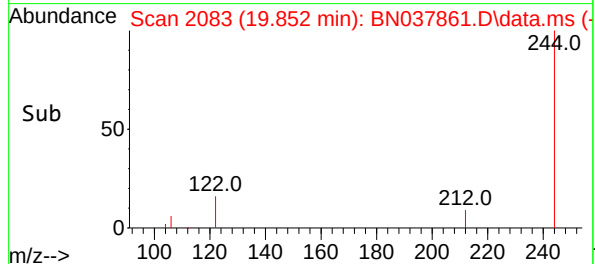
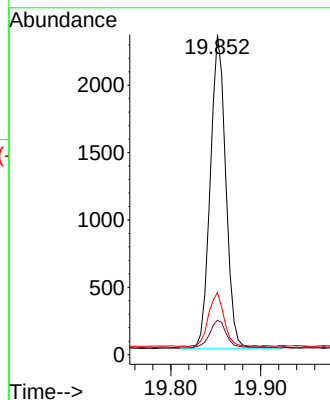
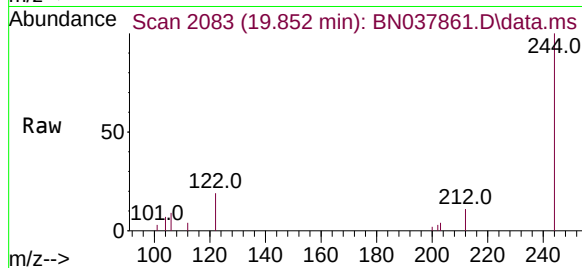




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

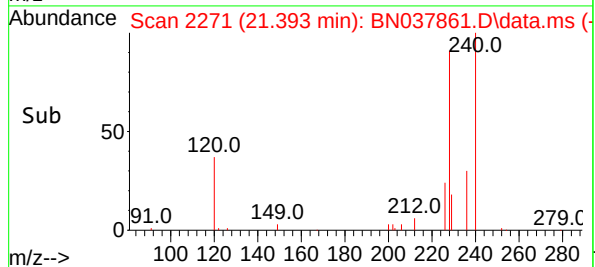
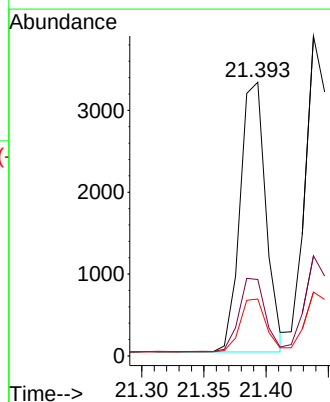
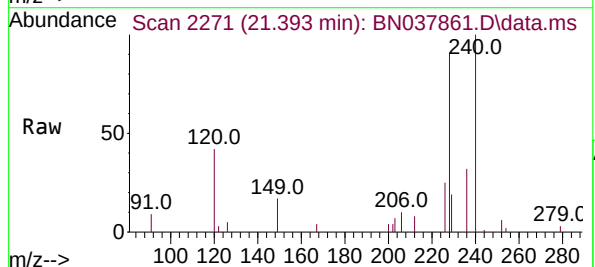
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

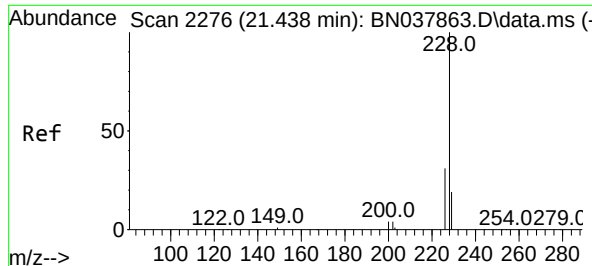
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.7	7.6	11.4
122	19.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.8	15.6	23.4





#33

Chrysene

Concen: 0.100 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

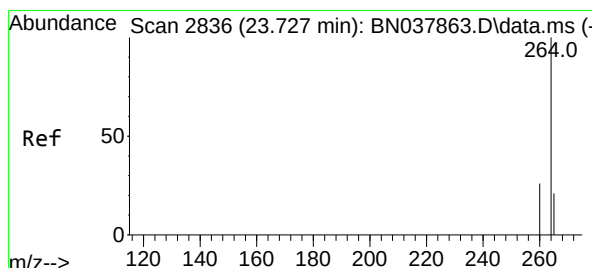
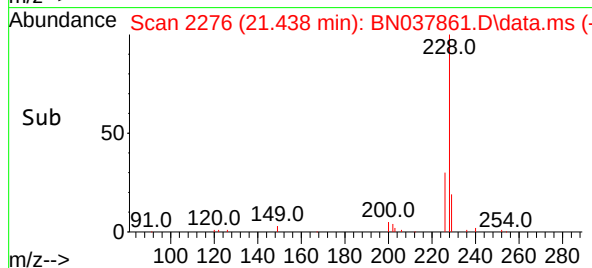
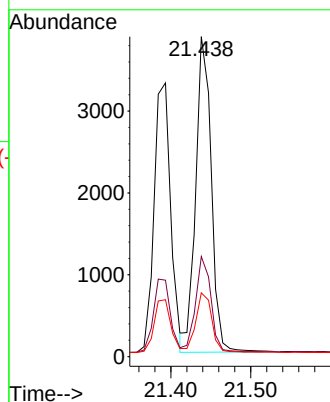
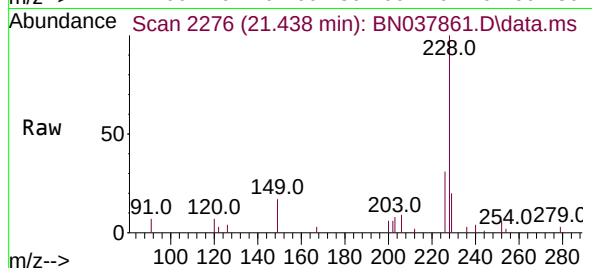
Tgt Ion:228 Resp: 5223

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.9 15.6 23.4



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

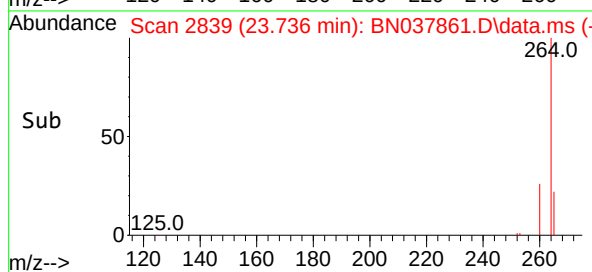
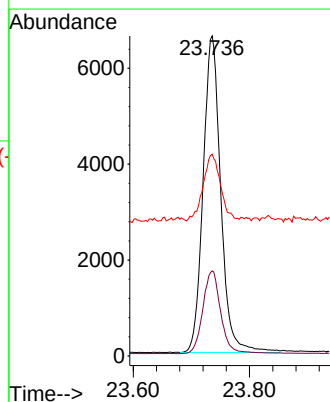
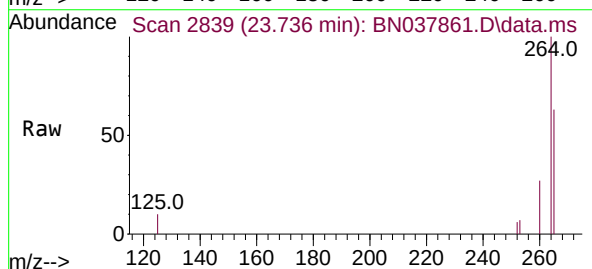
Tgt Ion:264 Resp: 13928

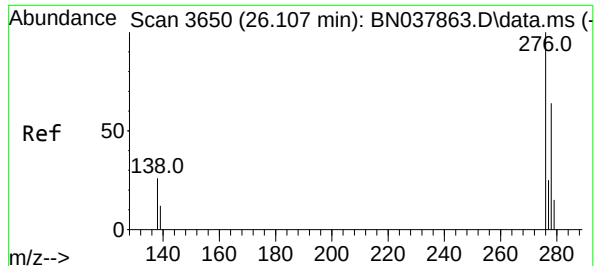
Ion Ratio Lower Upper

264 100

260 26.6 21.5 32.3

265 63.0 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.094 ng

RT: 26.113 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

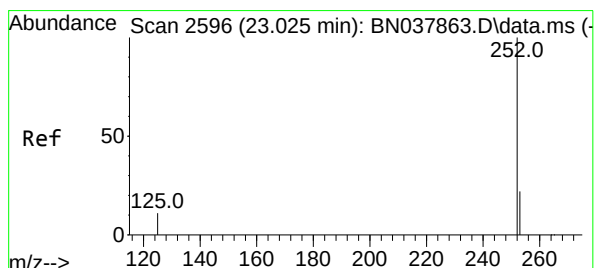
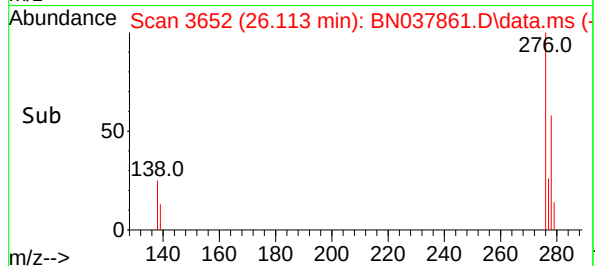
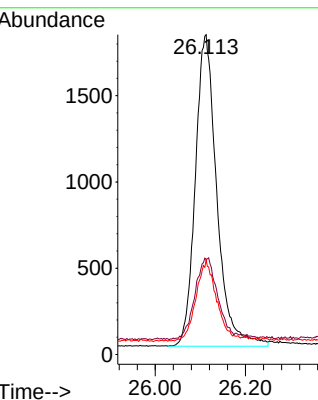
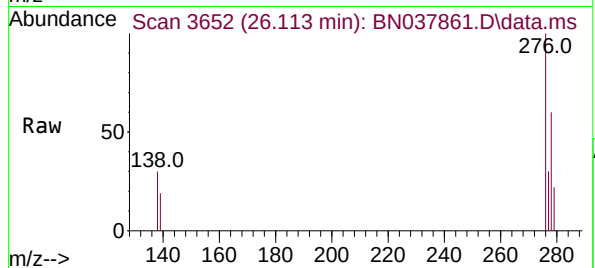
Tgt Ion:276 Resp: 5972

Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.6 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

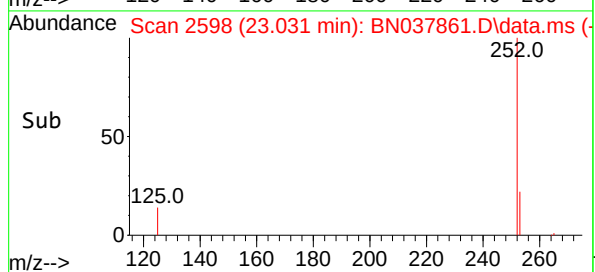
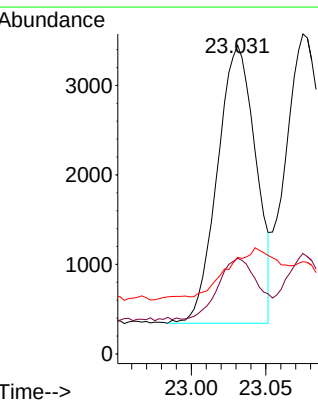
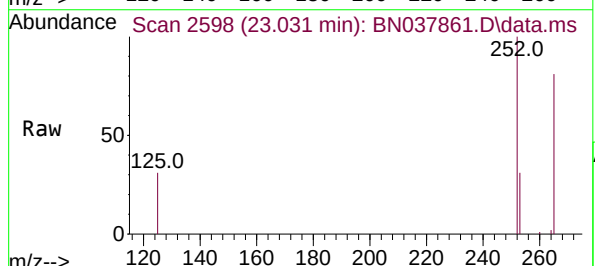
Tgt Ion:252 Resp: 5567

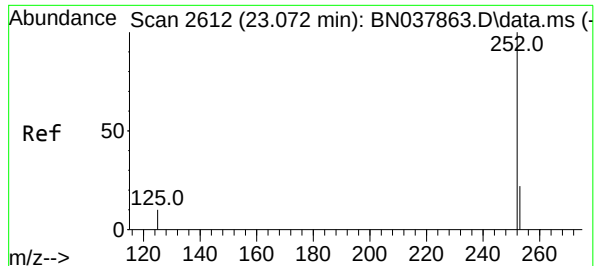
Ion Ratio Lower Upper

252 100

253 31.0 19.4 29.0#

125 31.3 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 23.075 min Scan# 2612

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

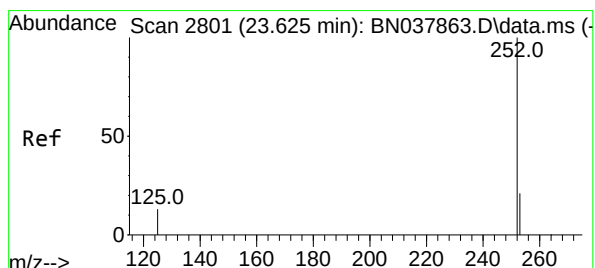
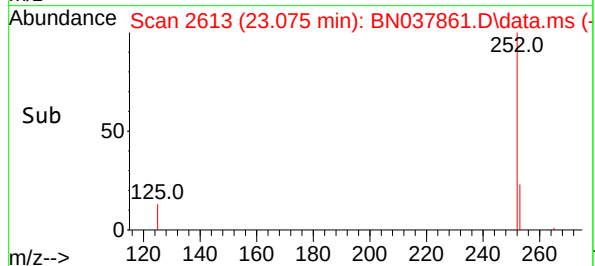
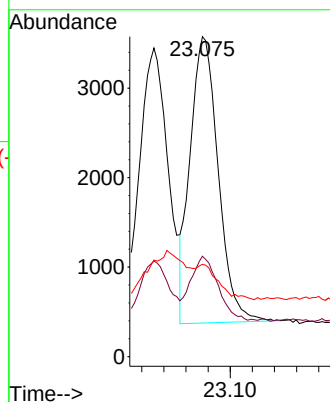
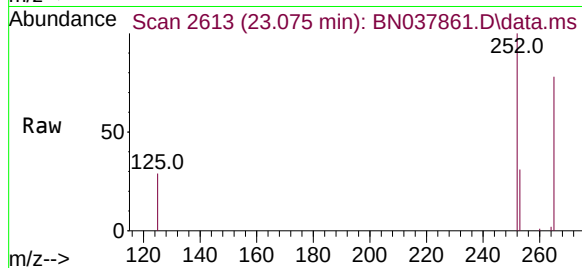
Tgt Ion:252 Resp: 5642

Ion Ratio Lower Upper

252 100

253 31.4 19.5 29.3#

125 28.8 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

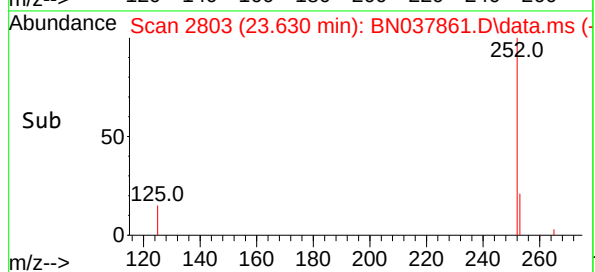
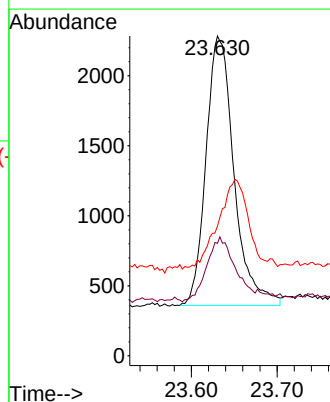
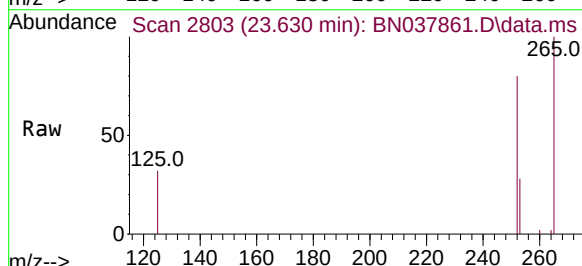
Tgt Ion:252 Resp: 4368

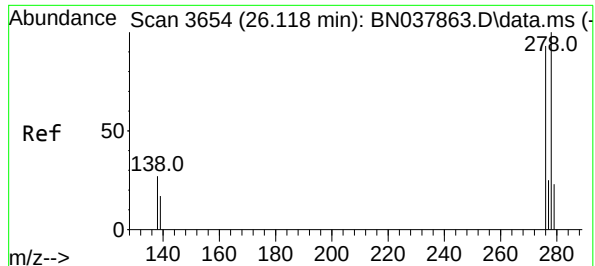
Ion Ratio Lower Upper

252 100

253 35.2 20.6 30.8#

125 40.6 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.127 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

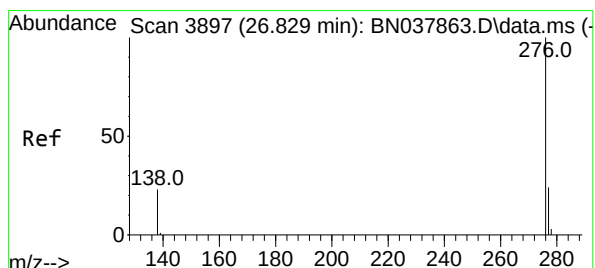
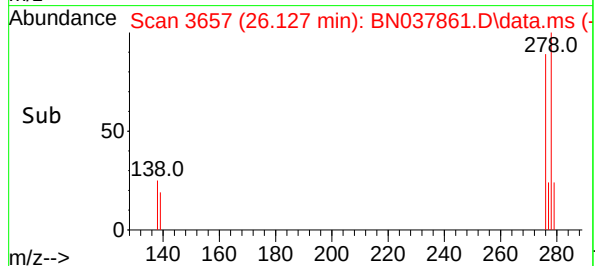
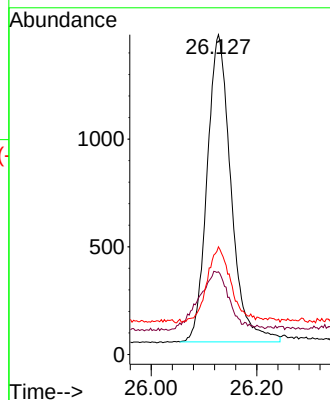
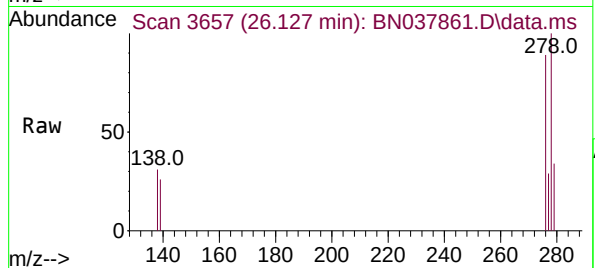
Tgt Ion:278 Resp: 4476

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 33.7 20.8 31.2#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.832 min Scan# 3898

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

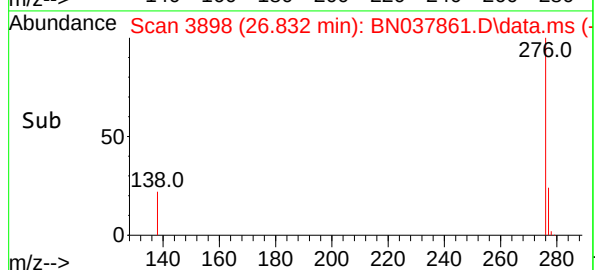
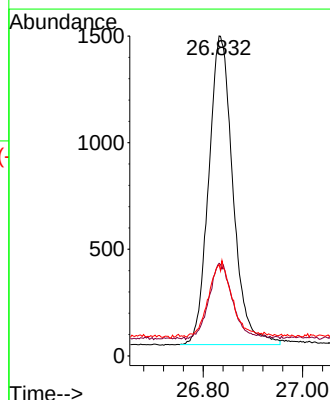
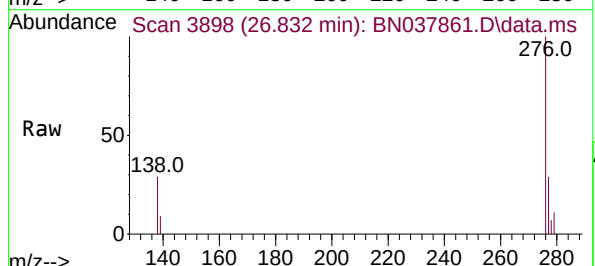
Tgt Ion:276 Resp: 4900

Ion Ratio Lower Upper

276 100

277 28.9 20.2 30.4

138 28.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037862.D
 Acq On : 23 Sep 2025 12:49
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

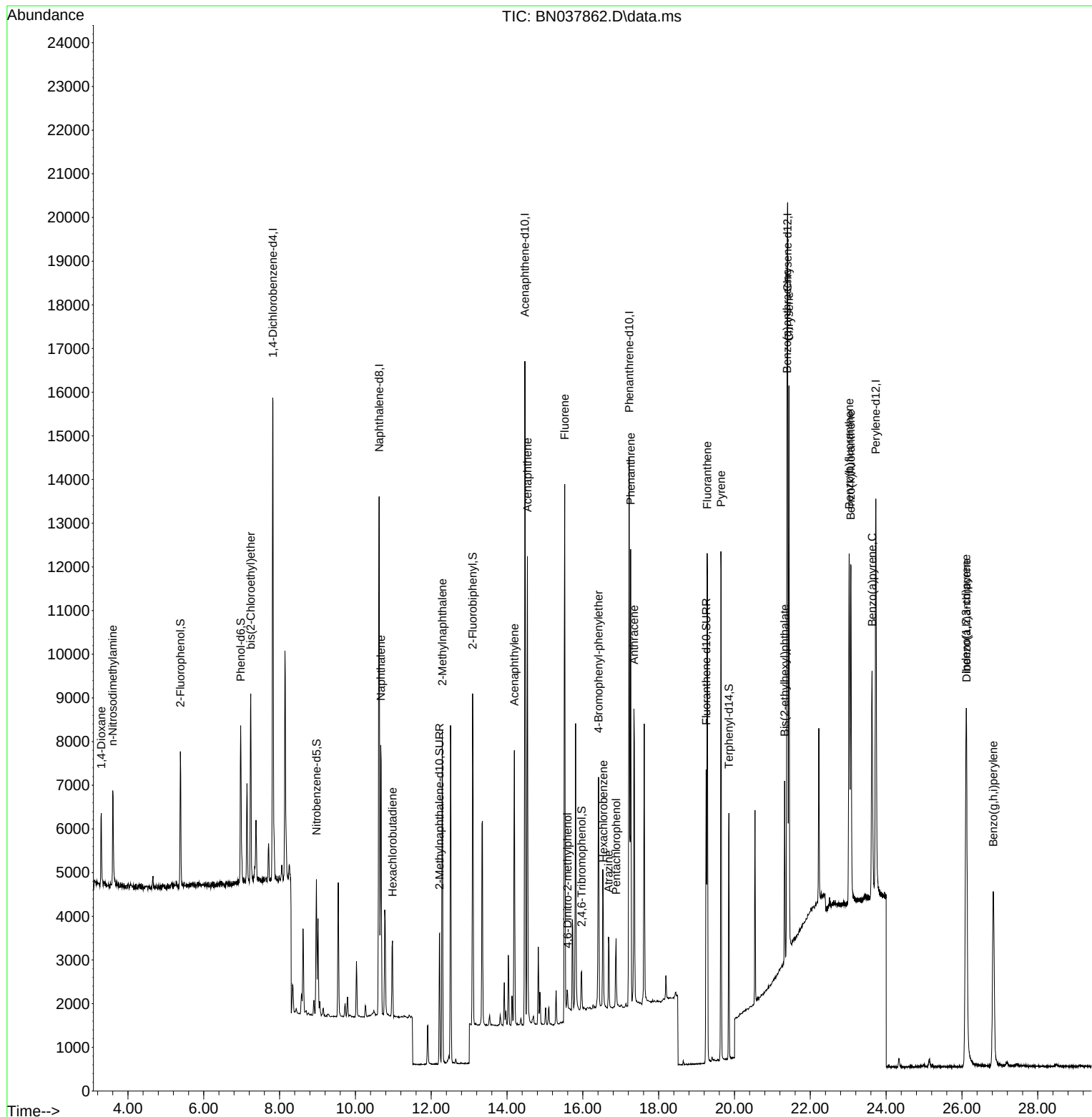
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13158	0.400	ng	0.00
35) Perylene-d12	23.730	264	12974	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	2553	0.202	ng	0.00
5) Phenol-d6	6.973	99	3326	0.200	ng	0.00
8) Nitrobenzene-d5	8.971	82	2278	0.190	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	4078	0.187	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	573	0.176	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	6579	0.199	ng	0.00
27) Fluoranthene-d10	19.253	212	7304	0.182	ng	0.00
31) Terphenyl-d14	19.852	244	5201	0.198	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	1144	0.203	ng	97
3) n-Nitrosodimethylamine	3.601	42	1500	0.200	ng	# 94
6) bis(2-Chloroethyl)ether	7.241	93	3039	0.197	ng	98
9) Naphthalene	10.669	128	8573	0.198	ng	99
10) Hexachlorobutadiene	10.979	225	1450	0.196	ng	# 99
12) 2-Methylnaphthalene	12.293	142	5361	0.189	ng	100
16) Acenaphthylene	14.195	152	6943	0.190	ng	99
17) Acenaphthene	14.537	154	4963	0.190	ng	98
18) Fluorene	15.523	166	5870	0.186	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	325	0.230	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	1965	0.190	ng	97
22) Hexachlorobenzene	16.540	284	2483	0.198	ng	99
23) Atrazine	16.677	200	1442	0.183	ng	# 89
24) Pentachlorophenol	16.876	266	804	0.186	ng	99
25) Phenanthrene	17.260	178	10109	0.193	ng	99
26) Anthracene	17.347	178	8235	0.181	ng	99
28) Fluoranthene	19.280	202	10466	0.181	ng	100
30) Pyrene	19.643	202	10528	0.203	ng	100
32) Benzo(a)anthracene	21.384	228	8943	0.194	ng	99
33) Chrysene	21.438	228	10042	0.202	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	3892	0.214	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	10845	0.183	ng	99
37) Benzo(b)fluoranthene	23.025	252	10420	0.186	ng	# 91
38) Benzo(k)fluoranthene	23.069	252	10290	0.183	ng	# 93
39) Benzo(a)pyrene	23.628	252	8405	0.190	ng	# 88
40) Dibenzo(a,h)anthracene	26.121	278	8321	0.180	ng	92
41) Benzo(g,h,i)perylene	26.826	276	8956	0.184	ng	97

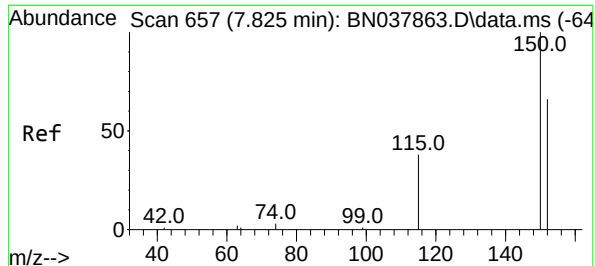
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037862.D
Acq On : 23 Sep 2025 12:49
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

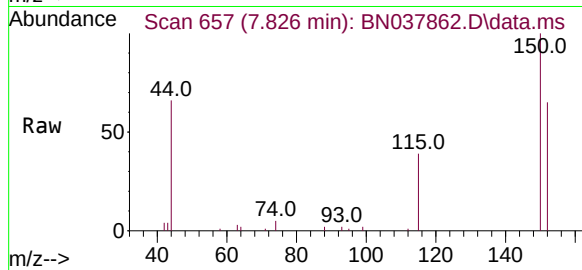
Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



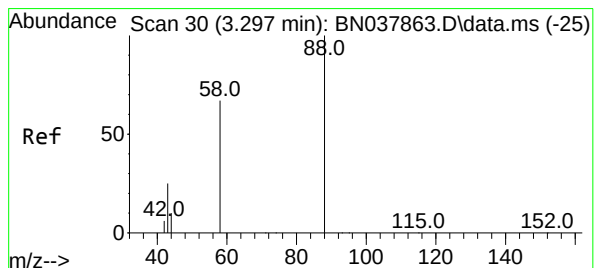
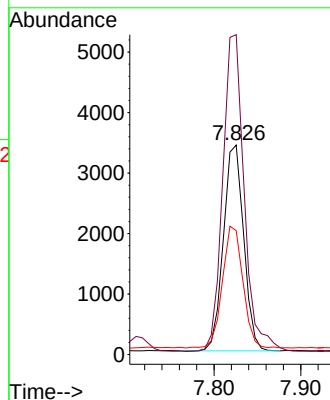
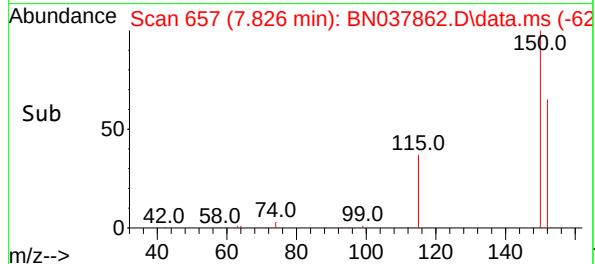


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

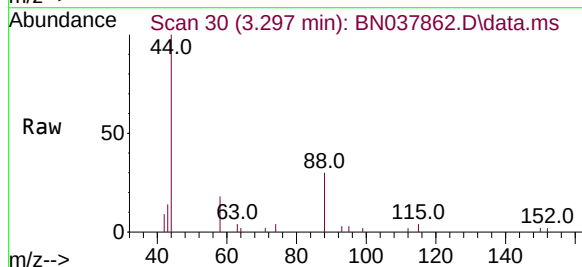
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



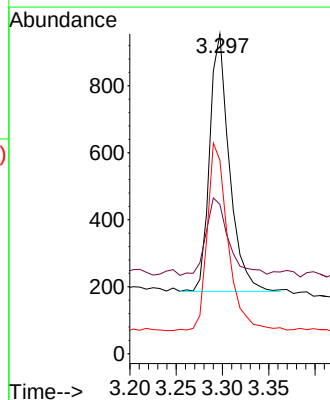
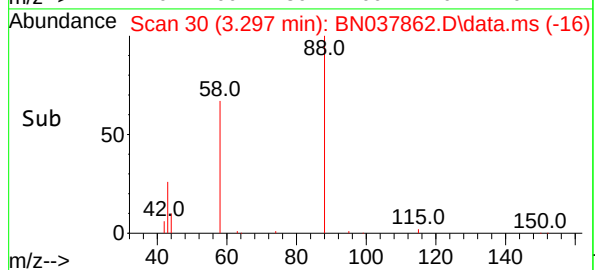
Tgt Ion:152 Resp: 5544
Ion Ratio Lower Upper
152 100
150 152.7 121.0 181.4
115 59.1 47.4 71.0

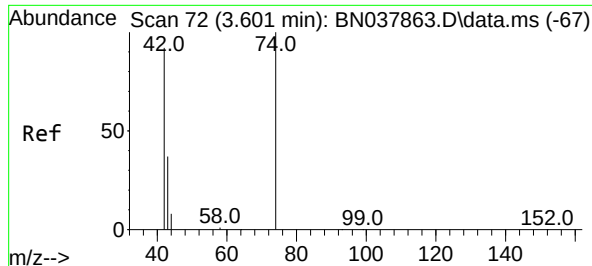


#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49



Tgt Ion: 88 Resp: 1144
Ion Ratio Lower Upper
88 100
43 34.1 26.6 39.8
58 76.4 58.9 88.3

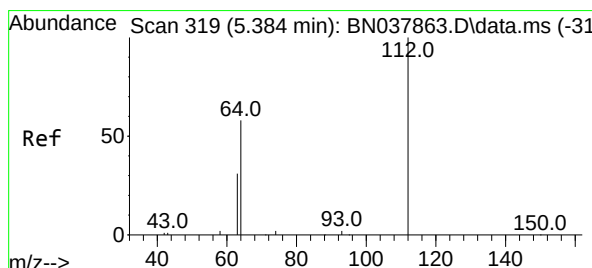
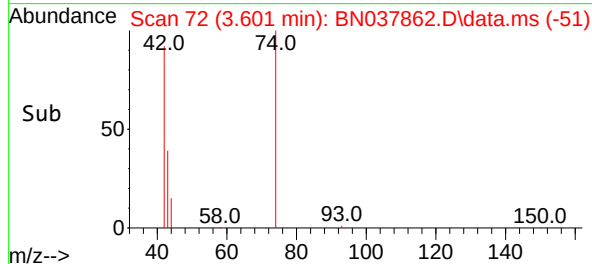
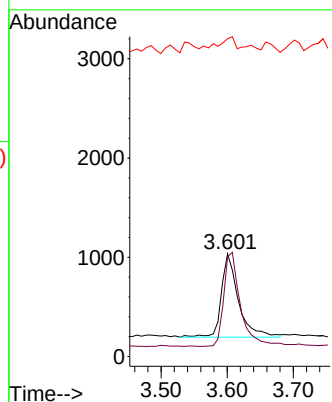
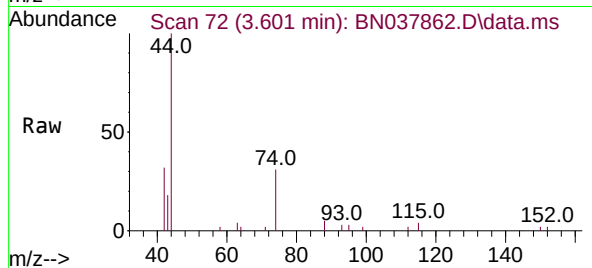




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

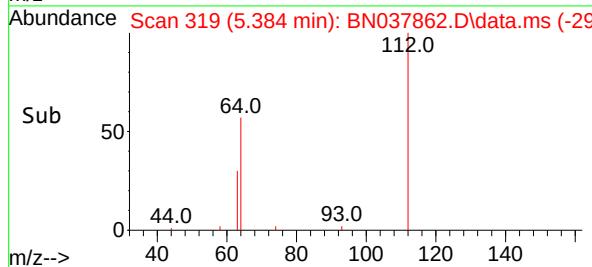
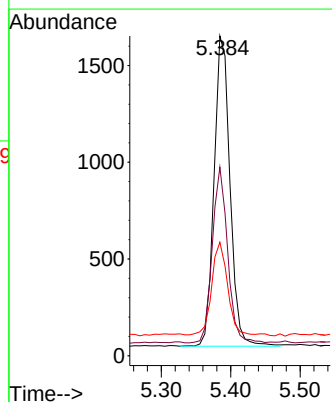
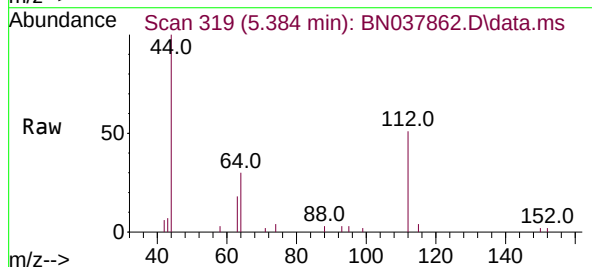
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

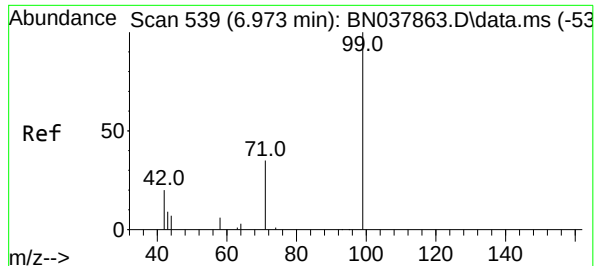
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 112.1 93.4 140.0
44 20.9 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 112 Resp: 2553
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 30.9 24.9 37.3

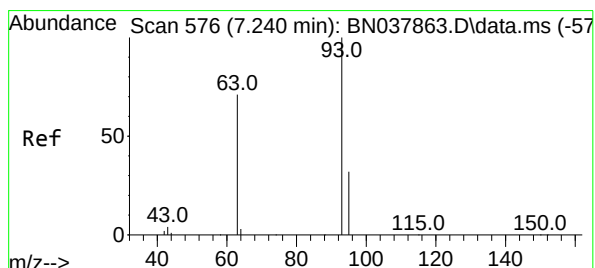
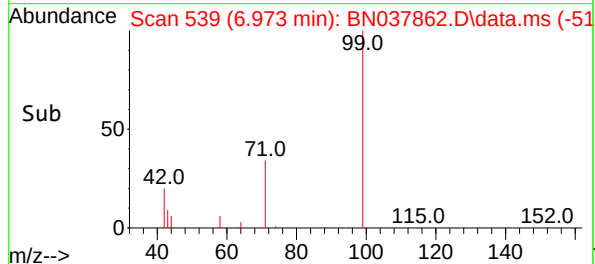
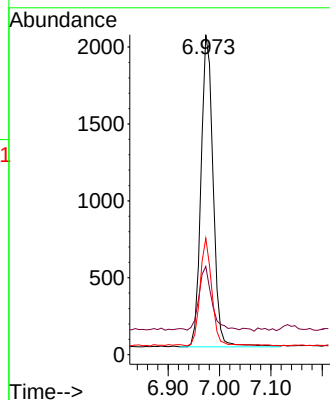
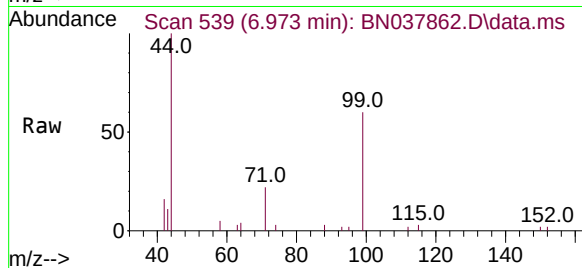




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

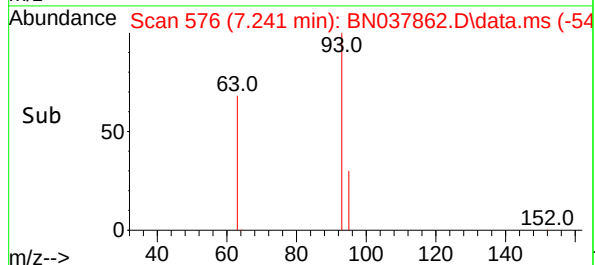
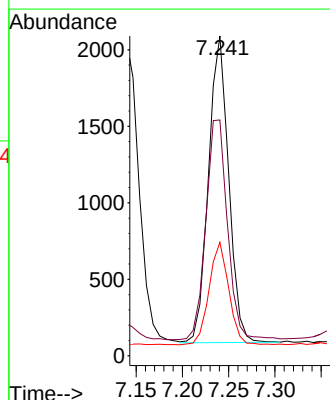
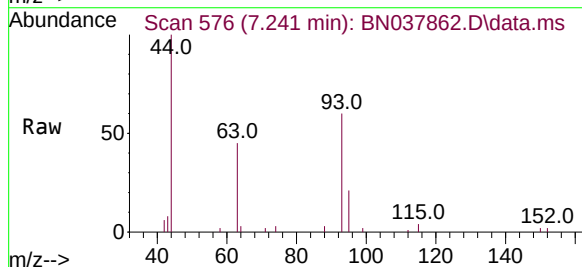
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

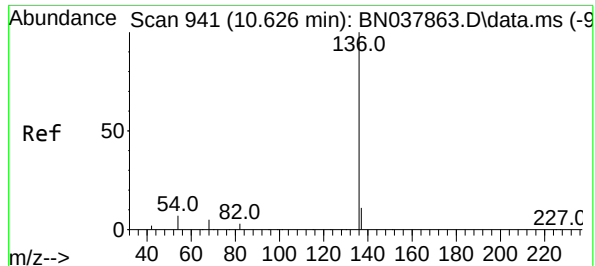
Tgt Ion:	99	Resp:	3326
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:	93	Resp:	3039
Ion	Ratio	Lower	Upper
93	100		
63	77.1	60.1	90.1
95	33.0	25.4	38.2

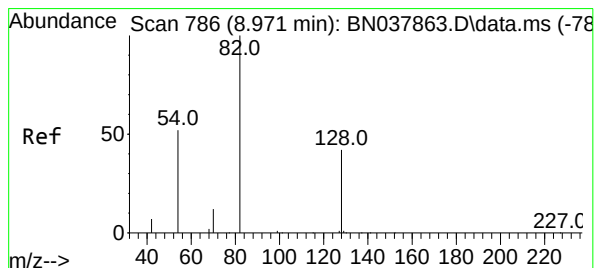
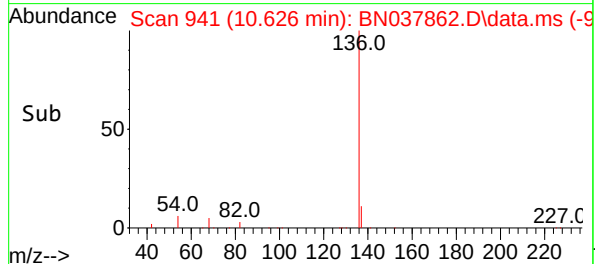
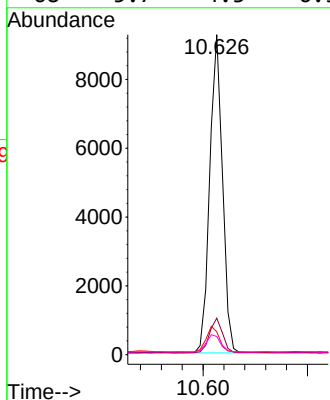
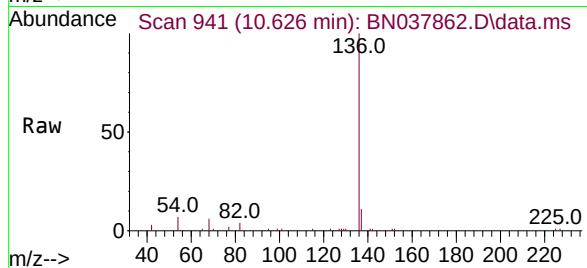




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

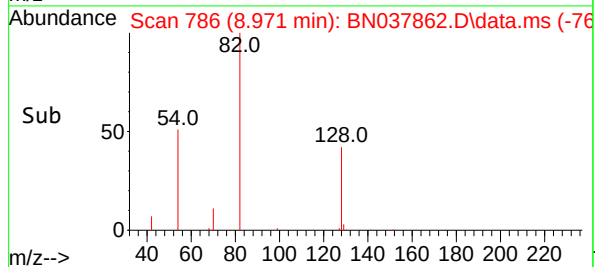
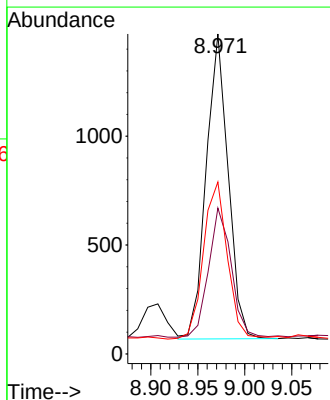
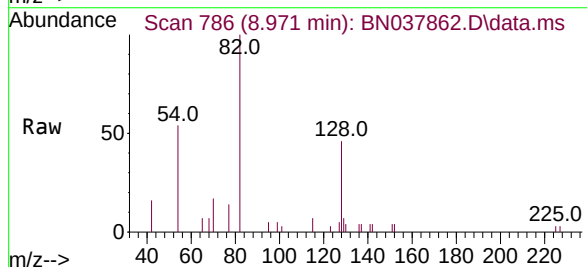
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

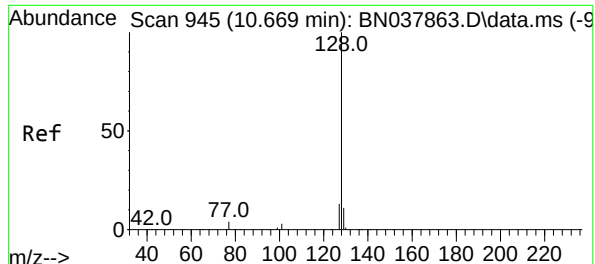
Tgt Ion:	136	Resp:	15739
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:	82	Resp:	2278
Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.8	52.2
54	53.7	42.2	63.2





#9

Naphthalene

Concen: 0.198 ng

RT: 10.669 min Scan# 945

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

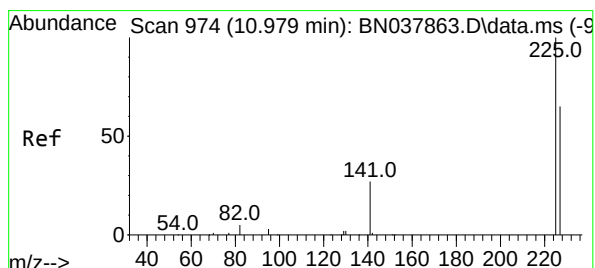
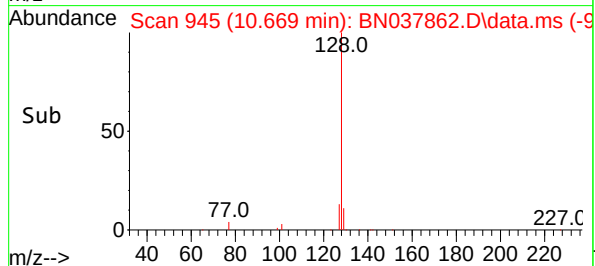
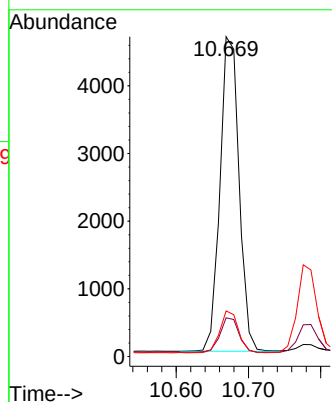
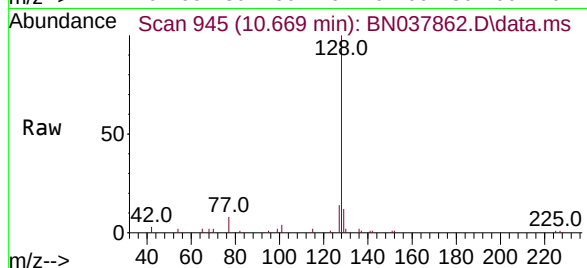
Tgt Ion:128 Resp: 8573

Ion Ratio Lower Upper

128 100

129 12.1 9.2 13.8

127 14.3 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.196 ng

RT: 10.979 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

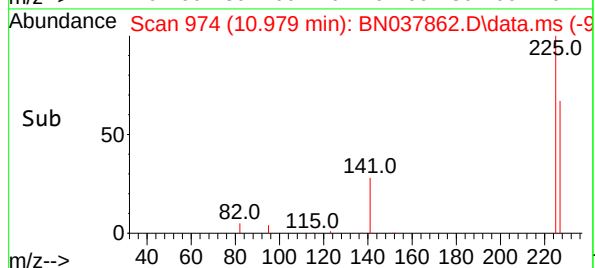
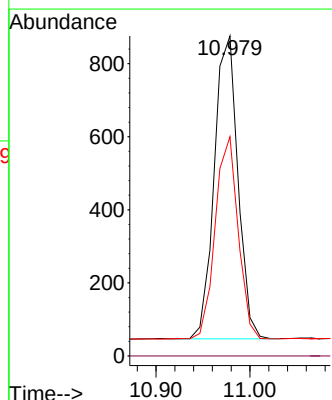
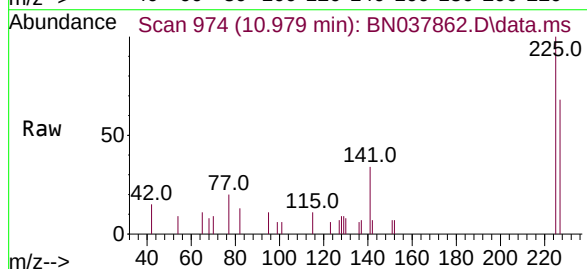
Tgt Ion:225 Resp: 1450

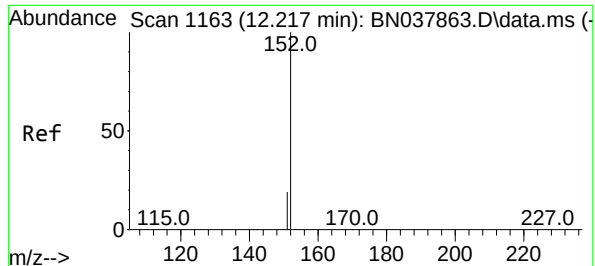
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.0 51.4 77.2

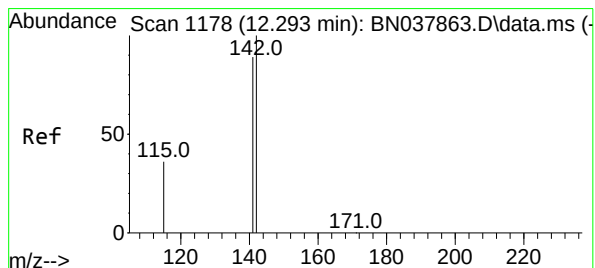
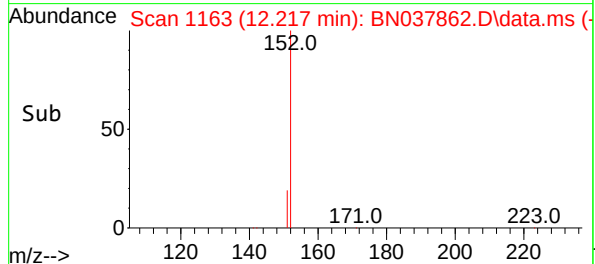
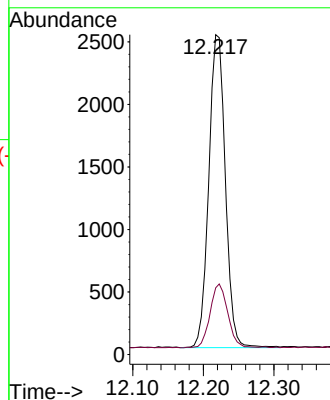
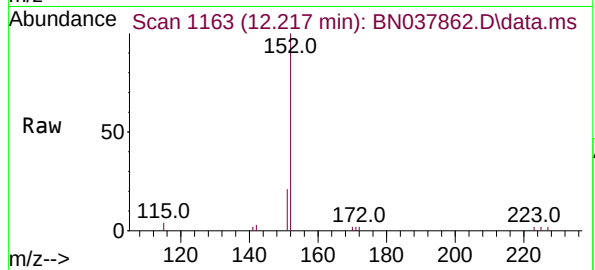




#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

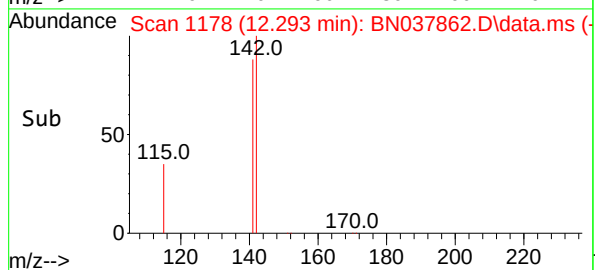
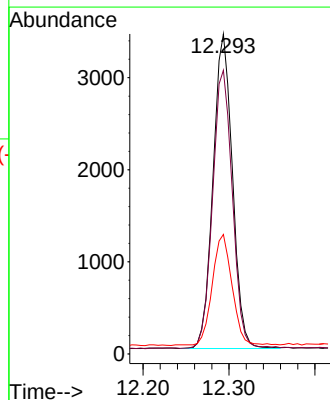
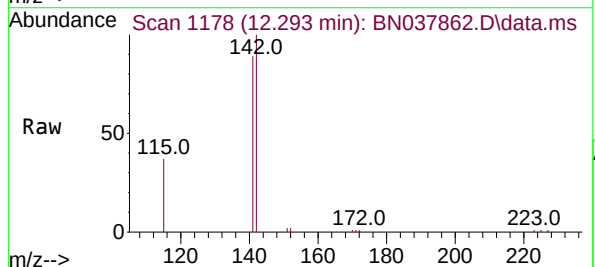
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

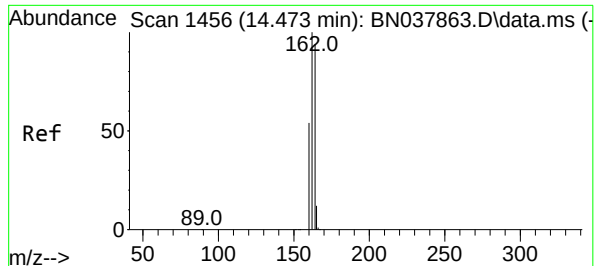
Tgt Ion:152 Resp: 4078
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:142 Resp: 5361
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 37.3 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

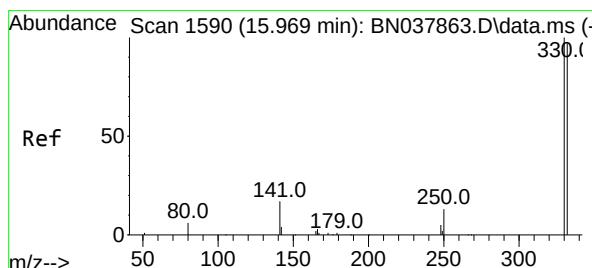
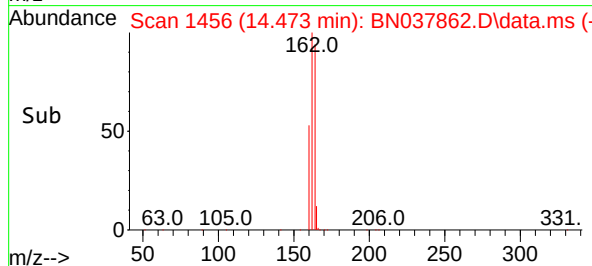
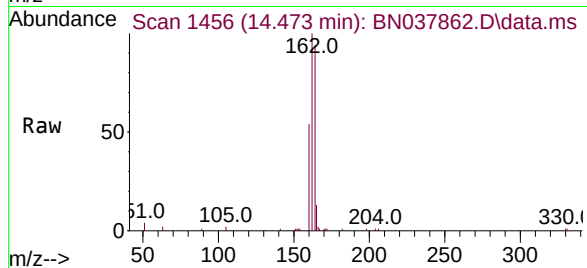
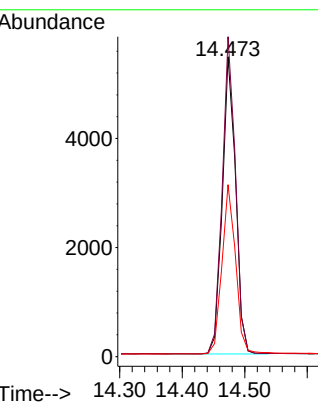
BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:164 Resp: 8069

Ion	Ratio	Lower	Upper
164	100		
162	106.7	84.8	127.2
160	57.3	46.1	69.1



#14

2,4,6-Tribromophenol

Concen: 0.176 ng

RT: 15.969 min Scan# 1590

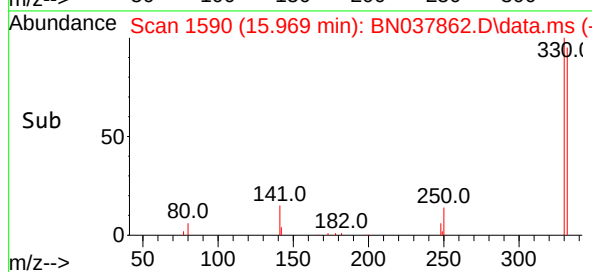
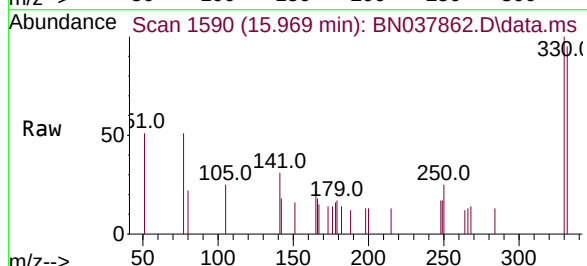
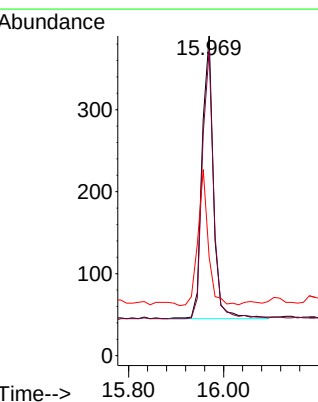
Delta R.T. 0.000 min

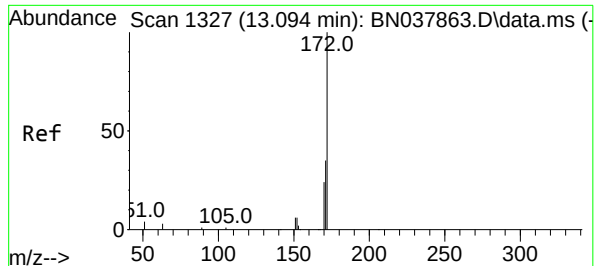
Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Tgt Ion:330 Resp: 573

Ion	Ratio	Lower	Upper
330	100		
332	94.2	77.2	115.8
141	44.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 0.199 ng

RT: 13.094 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

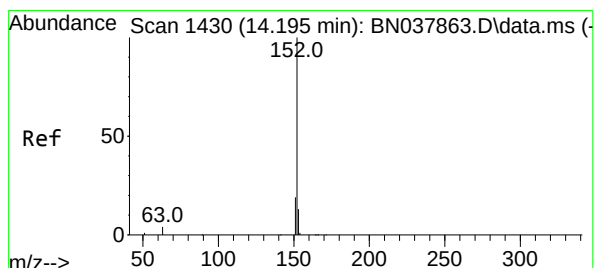
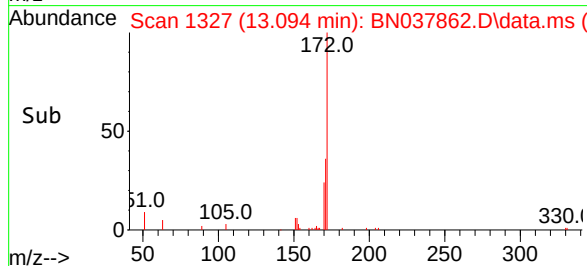
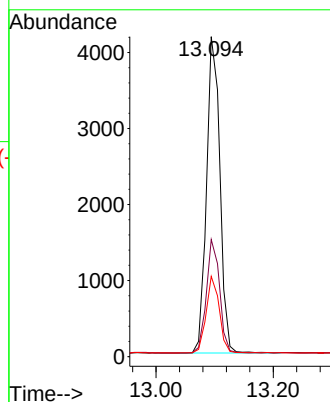
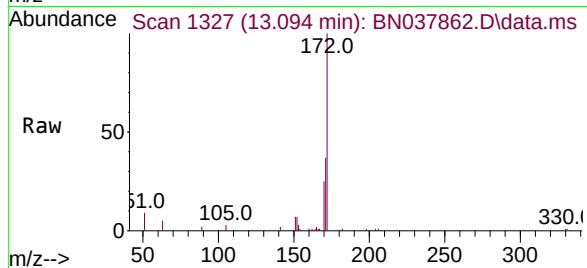
Tgt Ion:172 Resp: 6579

Ion Ratio Lower Upper

172 100

171 36.6 28.6 43.0

170 25.1 19.7 29.5



#16

Acenaphthylene

Concen: 0.190 ng

RT: 14.195 min Scan# 1430

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

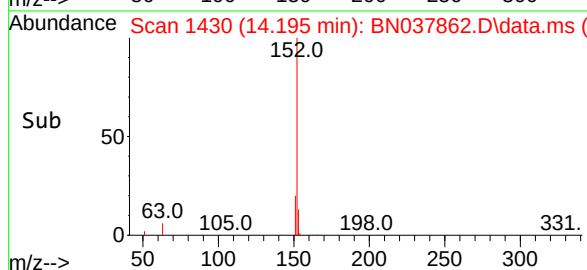
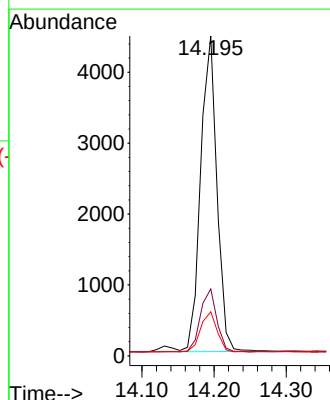
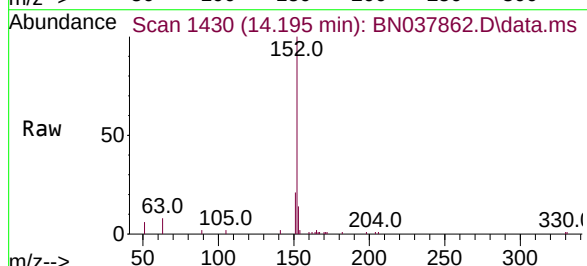
Tgt Ion:152 Resp: 6943

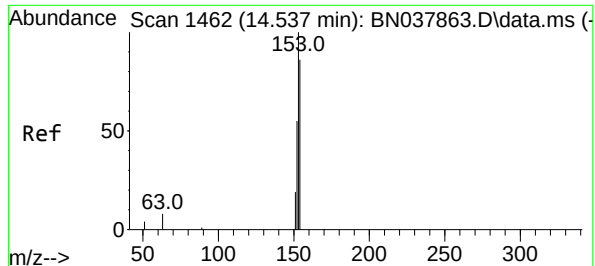
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

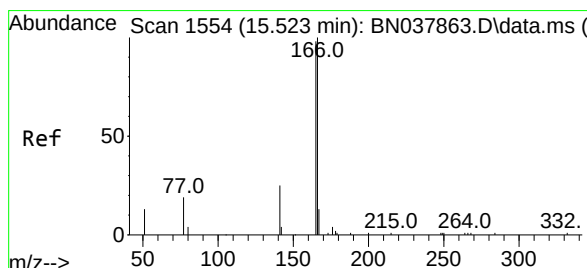
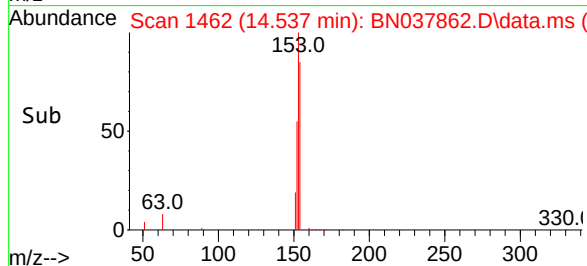
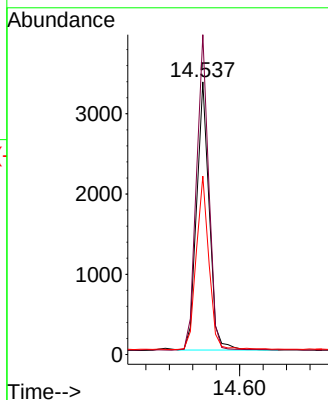
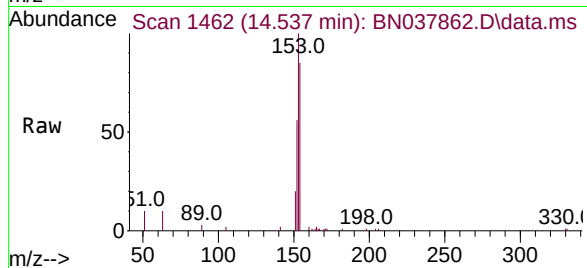
Tgt Ion:154 Resp: 4963

Ion Ratio Lower Upper

154 100

153 115.4 90.5 135.7

152 65.5 51.8 77.8



#18

Fluorene

Concen: 0.186 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

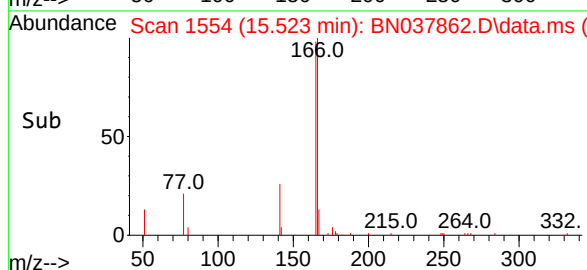
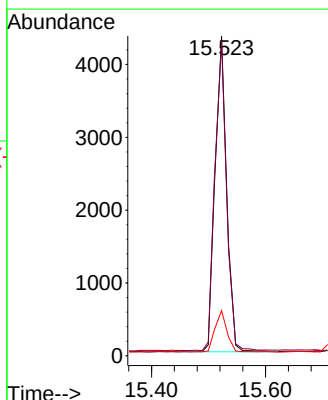
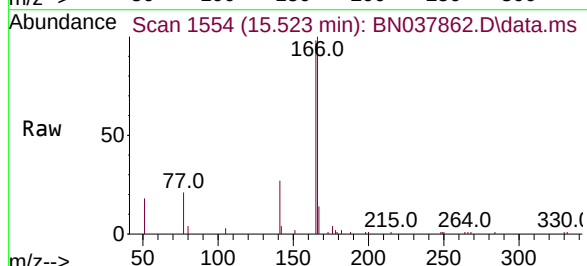
Tgt Ion:166 Resp: 5870

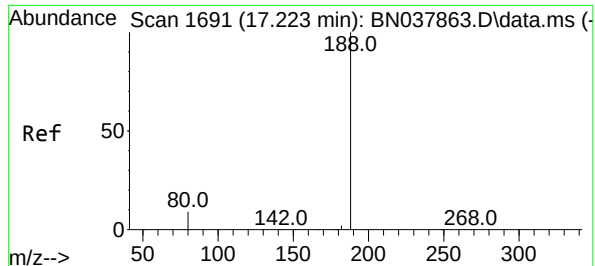
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

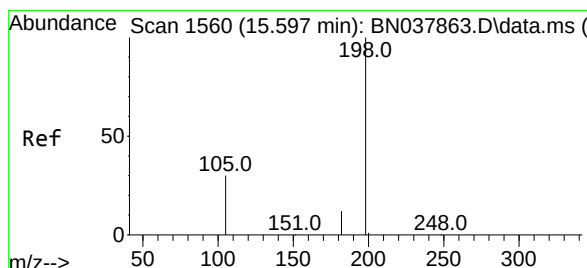
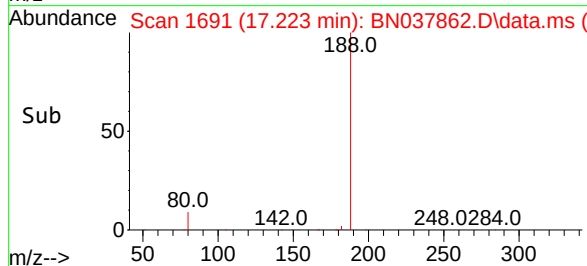
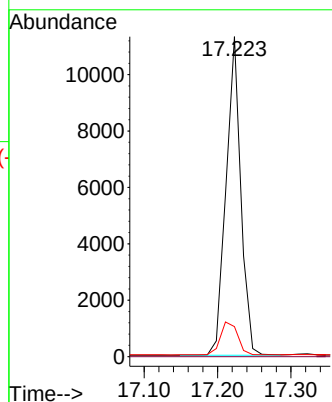
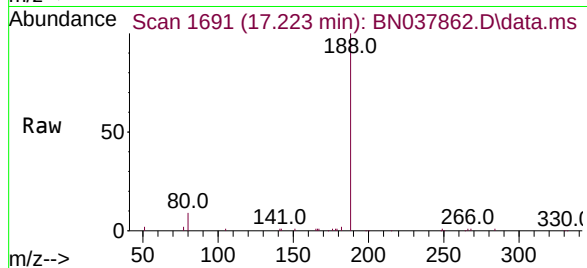
Tgt Ion:188 Resp: 15912

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.230 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

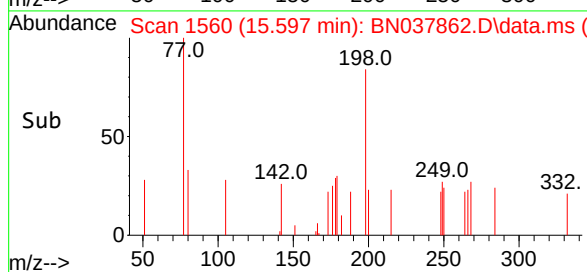
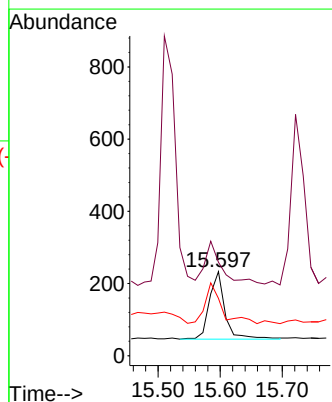
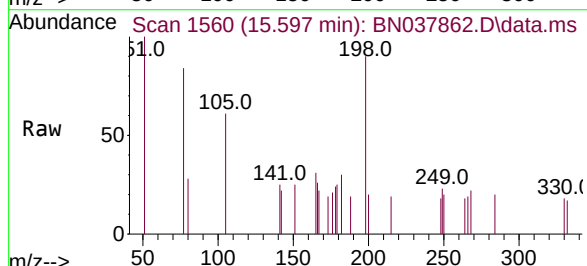
Tgt Ion:198 Resp: 325

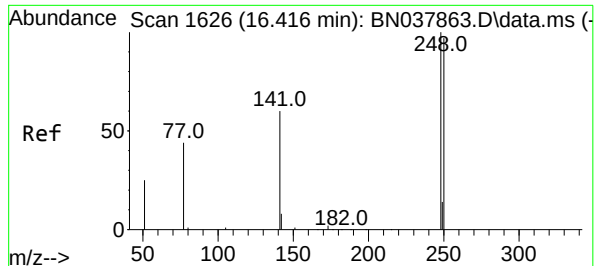
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#

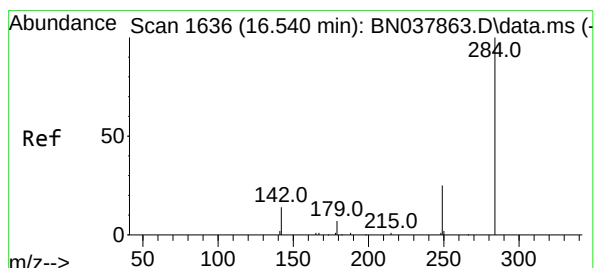
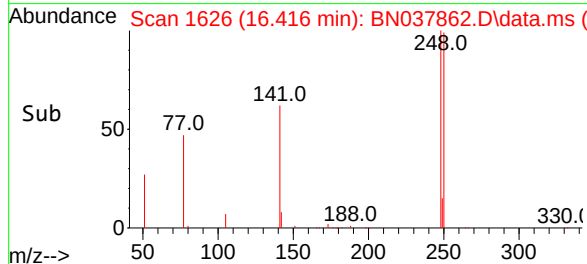
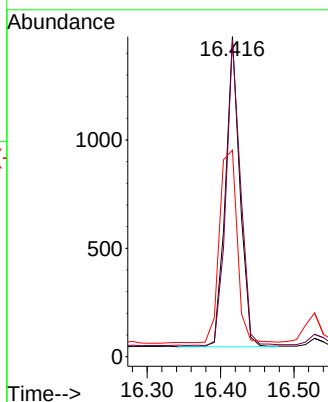
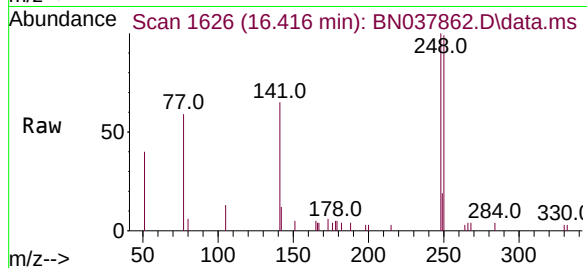




#21
4-Bromophenyl-phenylether
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

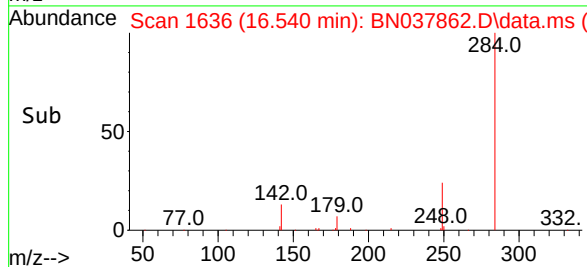
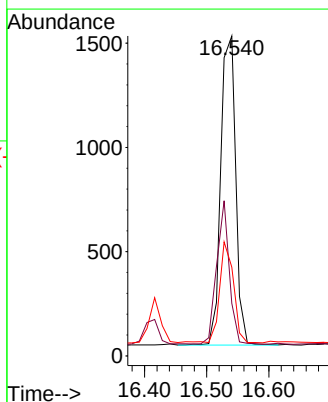
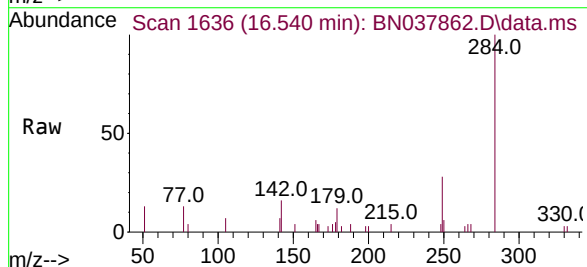
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

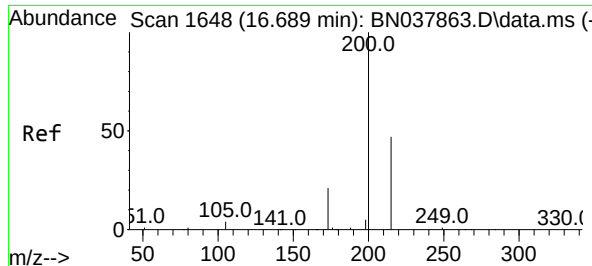
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.8	77.6	116.4
141	64.5	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.198 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.3	23.9	35.9

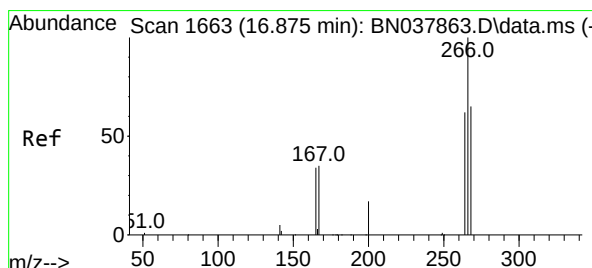
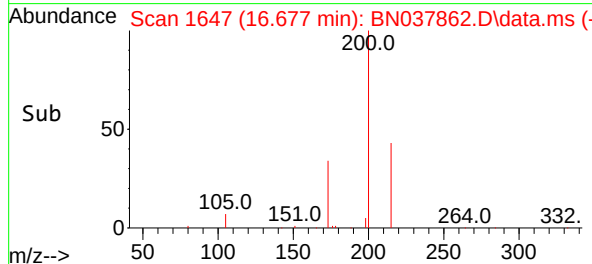
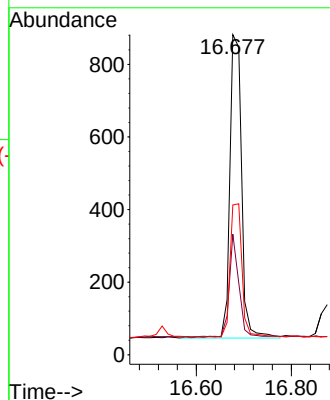
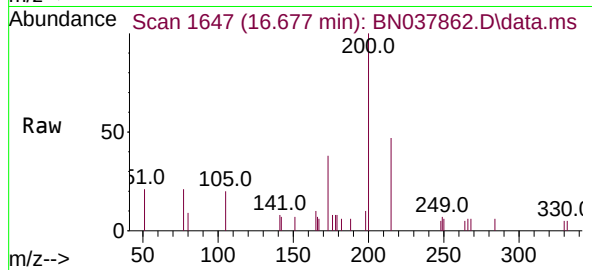




#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

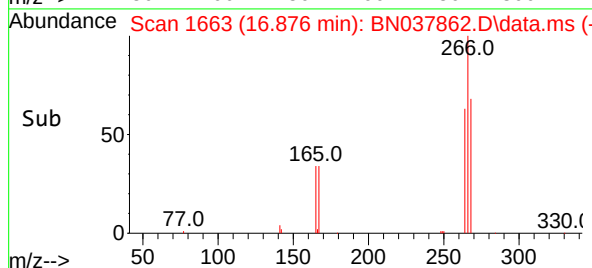
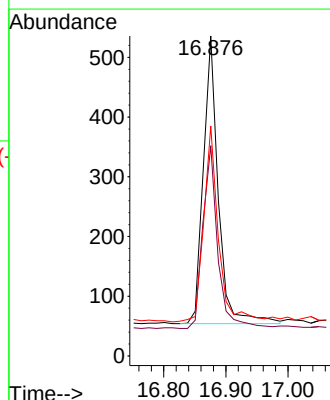
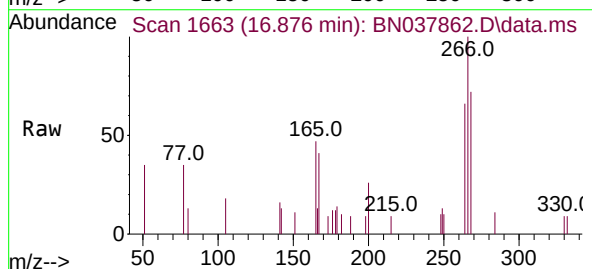
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

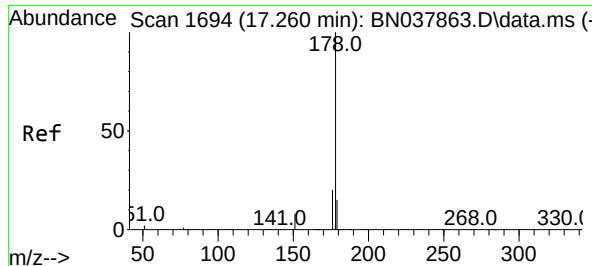
Tgt Ion:200 Resp: 1442
Ion Ratio Lower Upper
200 100
173 37.6 18.3 27.5#
215 46.8 38.6 58.0



#24
Pentachlorophenol
Concen: 0.186 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:266 Resp: 804
Ion Ratio Lower Upper
266 100
264 63.3 50.9 76.3
268 66.4 54.3 81.5

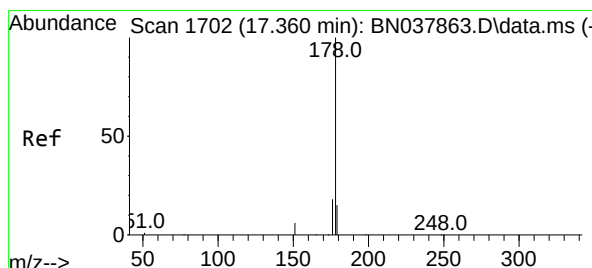
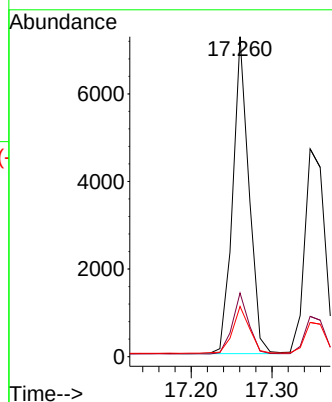
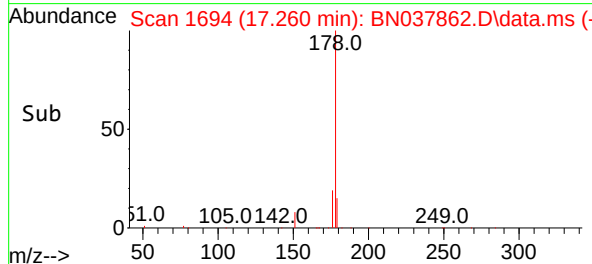
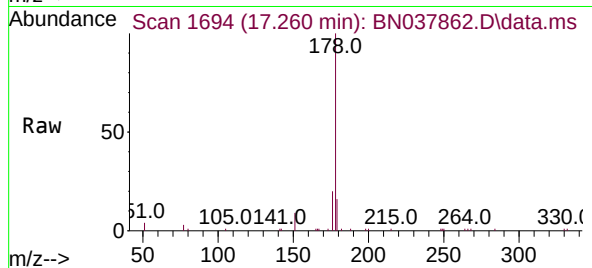




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

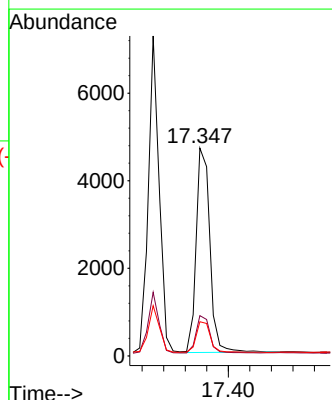
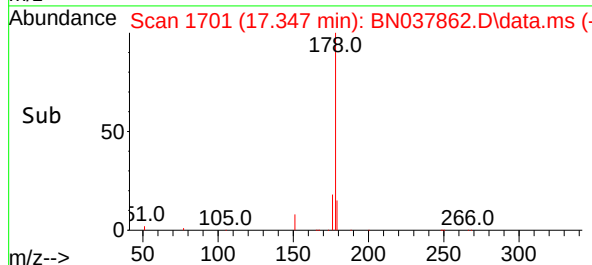
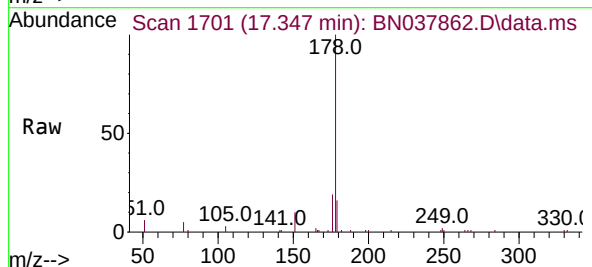
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

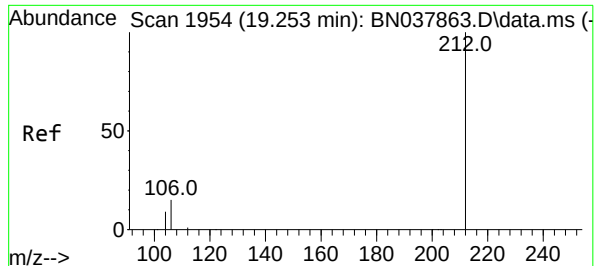
Tgt Ion:178 Resp: 10109
Ion Ratio Lower Upper
178 100
176 19.1 15.7 23.5
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.181 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:178 Resp: 8235
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.4
179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

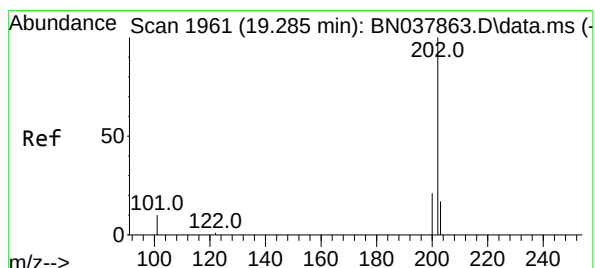
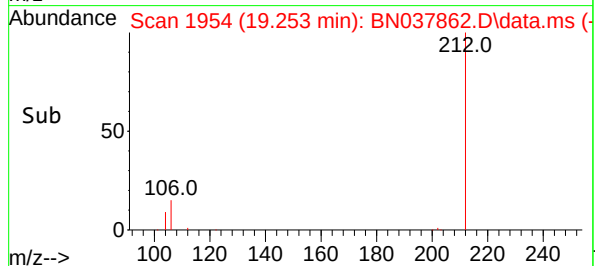
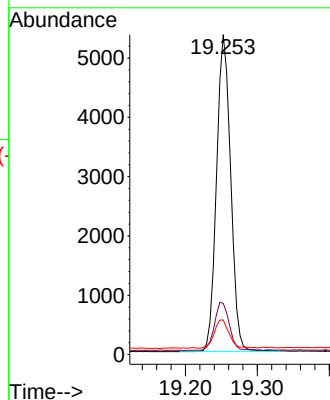
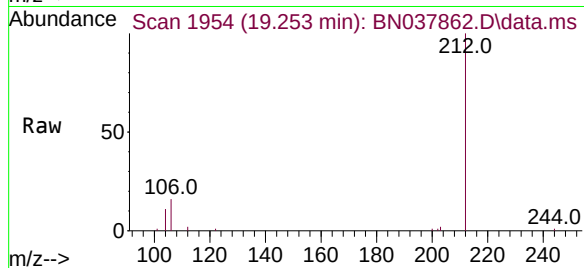
Tgt Ion:212 Resp: 7304

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

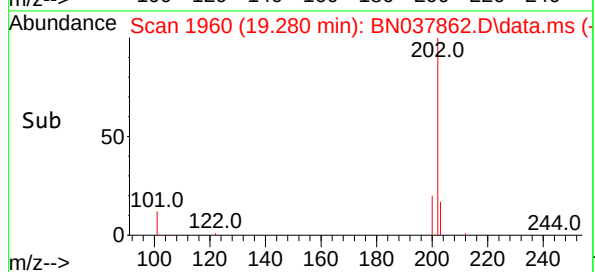
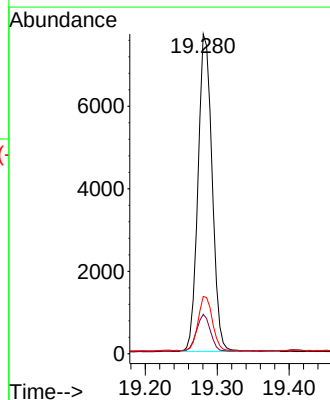
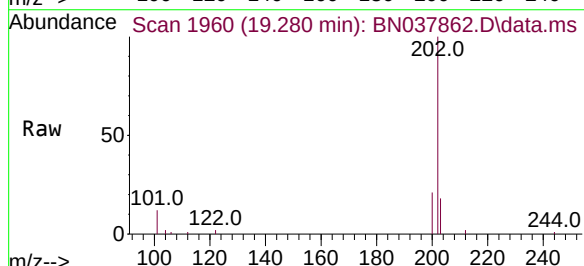
Tgt Ion:202 Resp: 10466

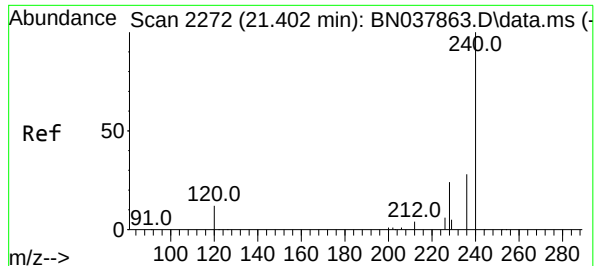
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4

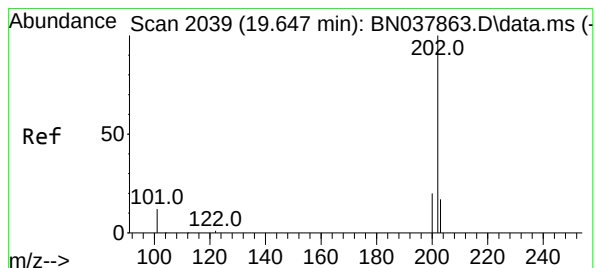
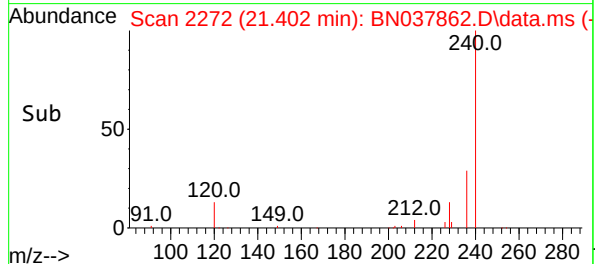
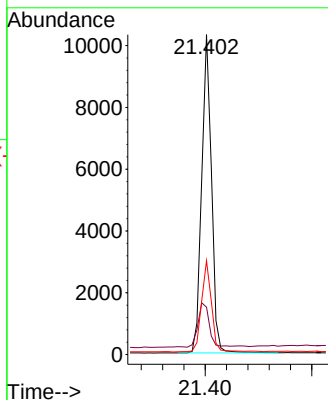
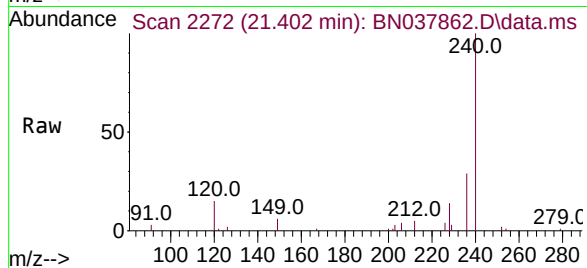




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

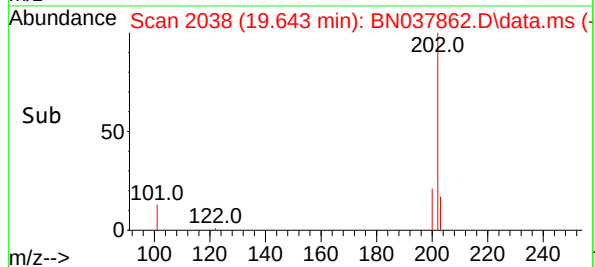
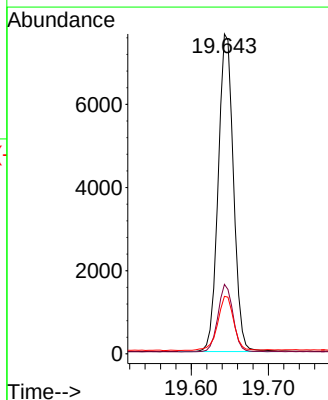
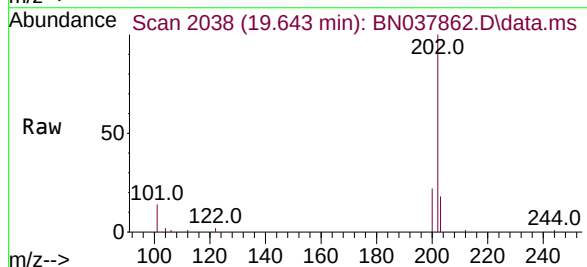
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

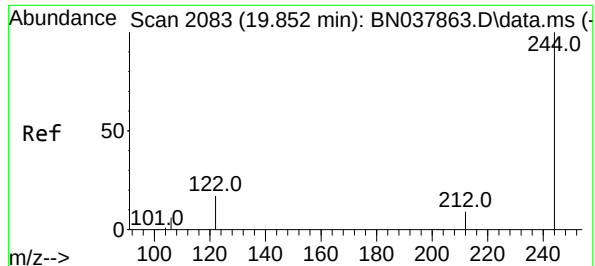
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.8	11.4	17.2
236	29.3	23.0	34.6



#30
Pyrene
Concen: 0.203 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.9	14.2	21.4

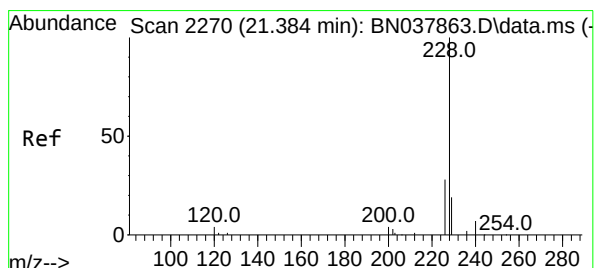
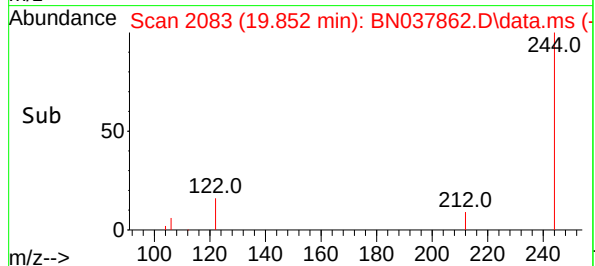
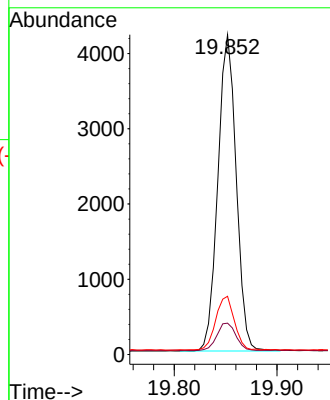
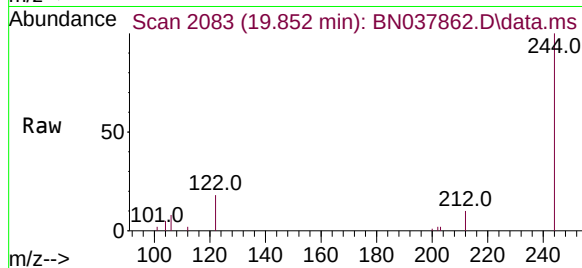




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

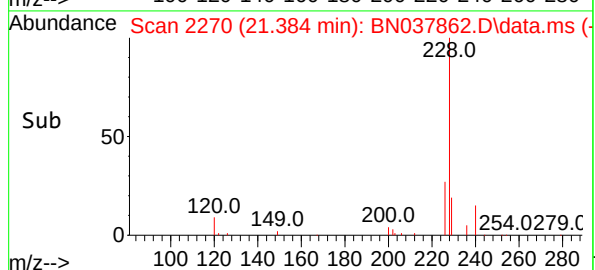
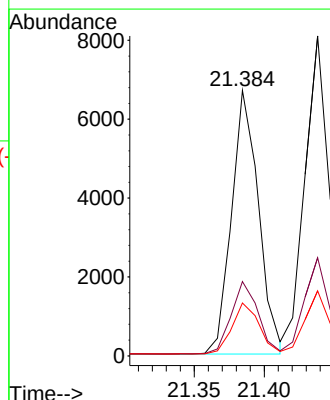
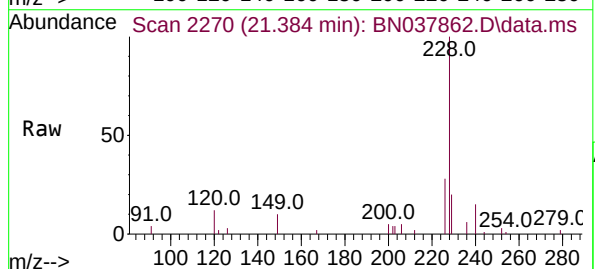
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

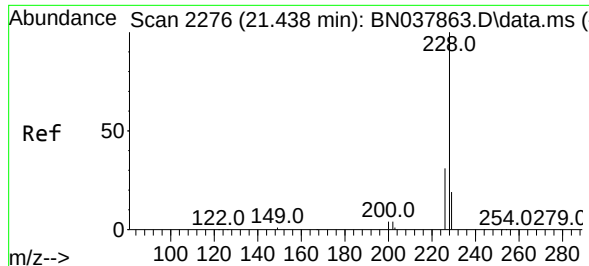
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	18.2	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.194 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.9	15.6	23.4





#33

Chrysene

Concen: 0.202 ng

RT: 21.438 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

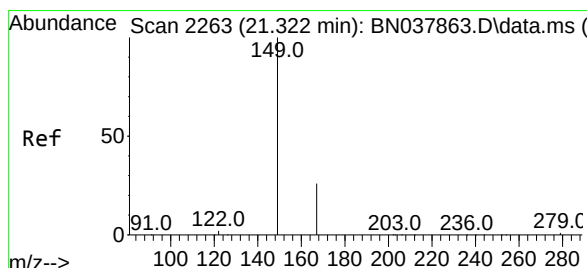
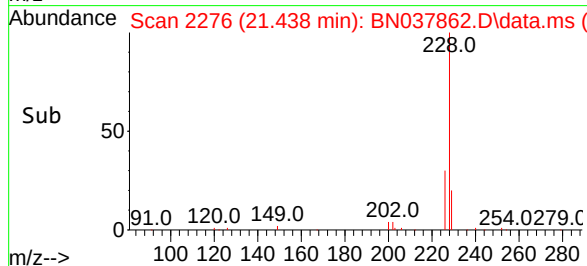
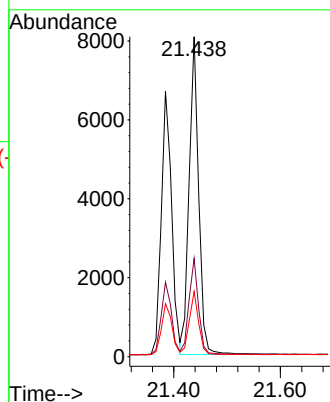
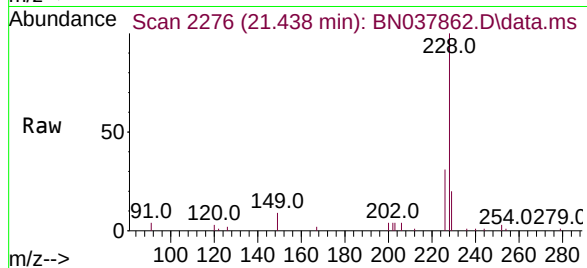
Tgt Ion:228 Resp: 10042

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 20.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.214 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

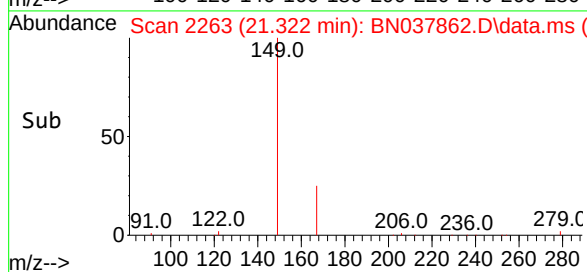
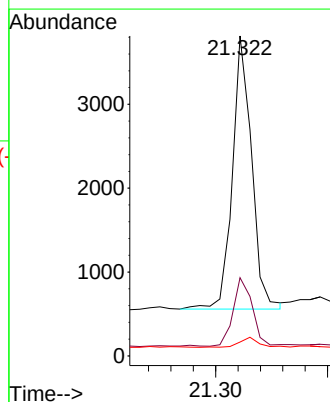
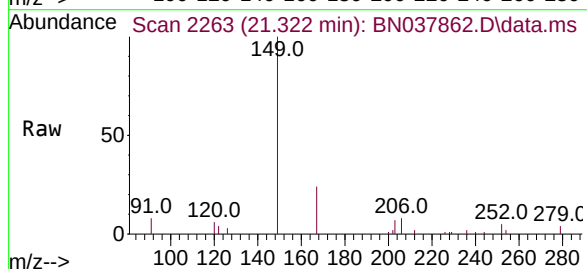
Tgt Ion:149 Resp: 3892

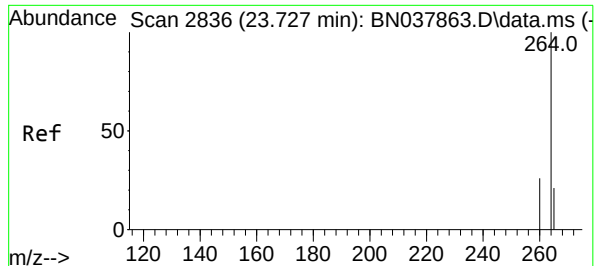
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

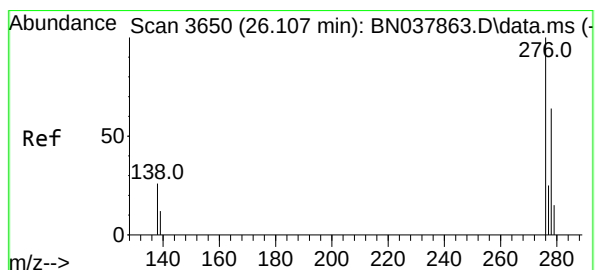
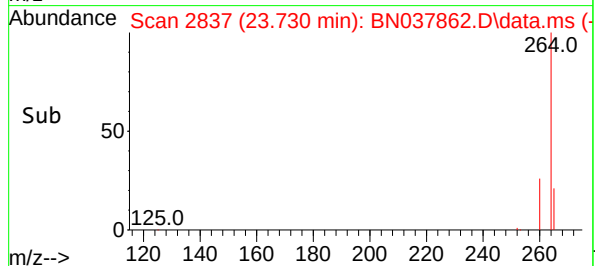
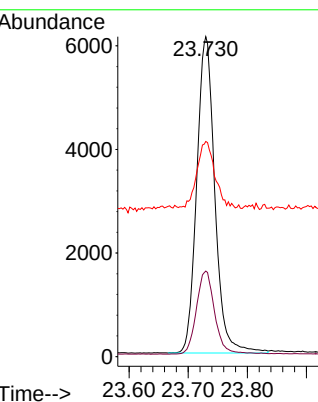
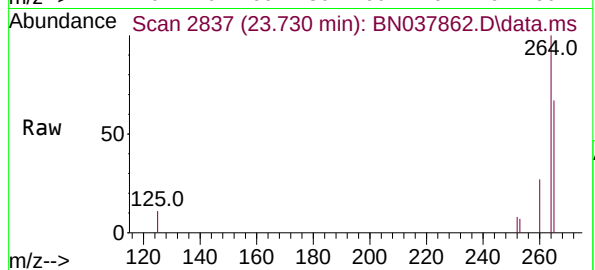
Tgt Ion:264 Resp: 12974

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 26.110 min Scan# 3651

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

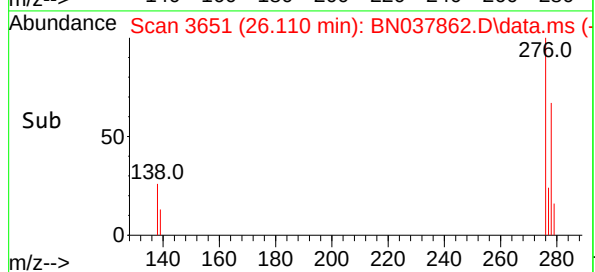
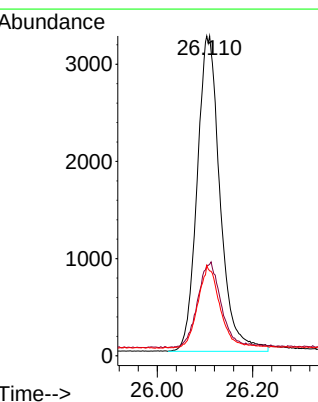
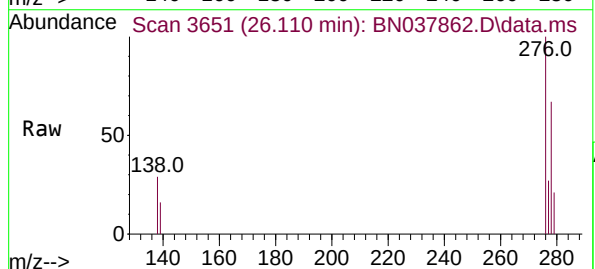
Tgt Ion:276 Resp: 10845

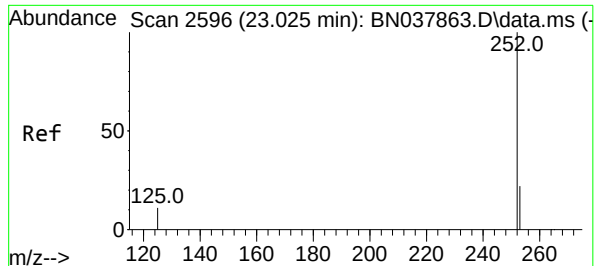
Ion Ratio Lower Upper

276 100

138 27.3 21.4 32.0

277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

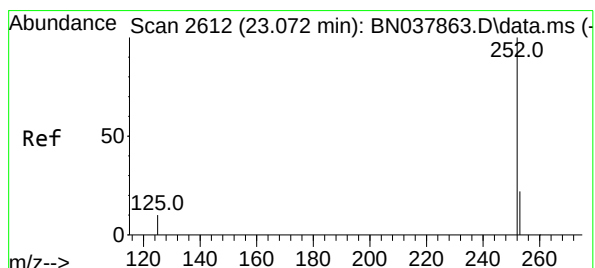
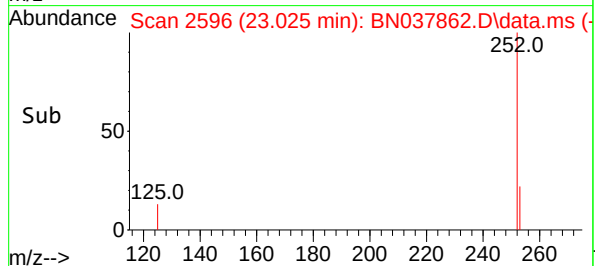
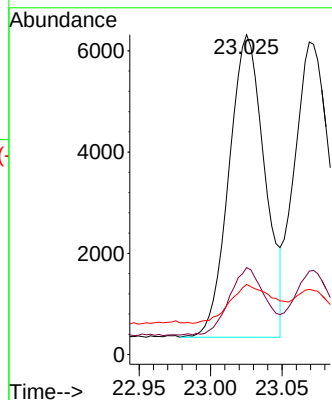
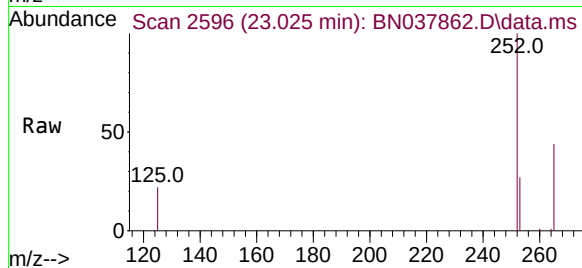
Tgt Ion:252 Resp: 10420

Ion Ratio Lower Upper

252 100

253 27.2 19.4 29.0

125 21.9 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

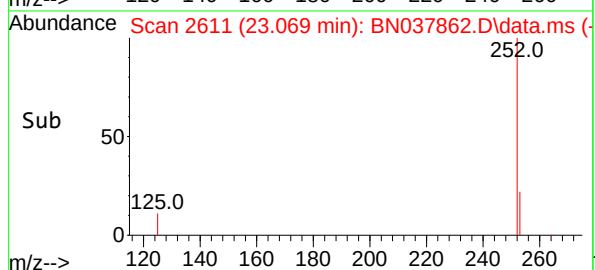
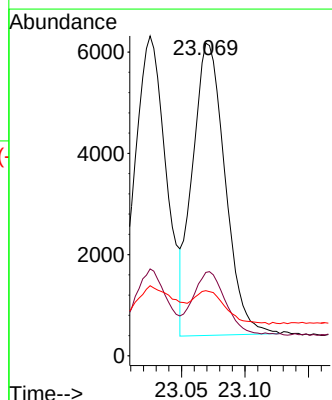
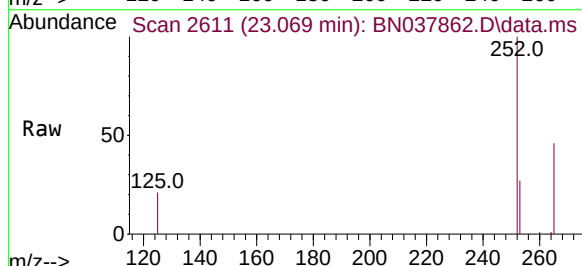
Tgt Ion:252 Resp: 10290

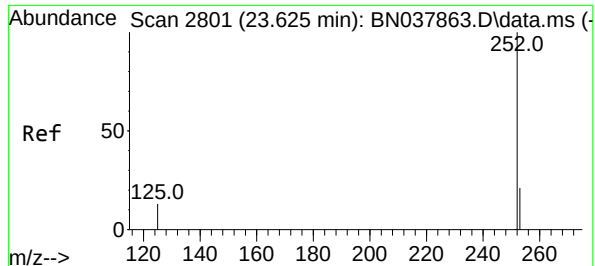
Ion Ratio Lower Upper

252 100

253 26.7 19.5 29.3

125 20.9 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

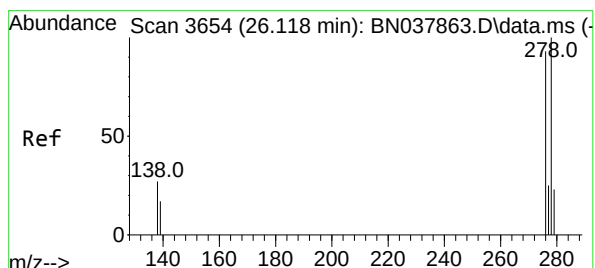
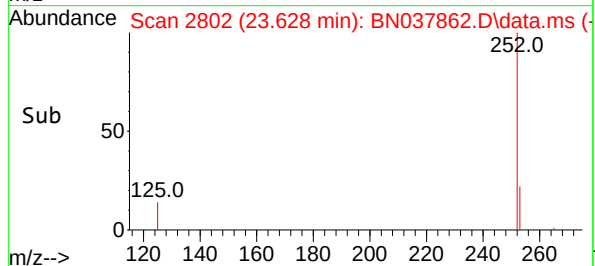
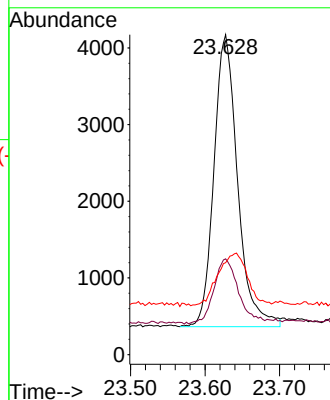
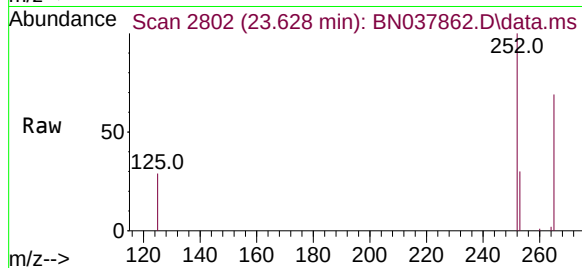
Tgt Ion:252 Resp: 8405

Ion Ratio Lower Upper

252 100

253 29.9 20.6 30.8

125 28.7 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.180 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

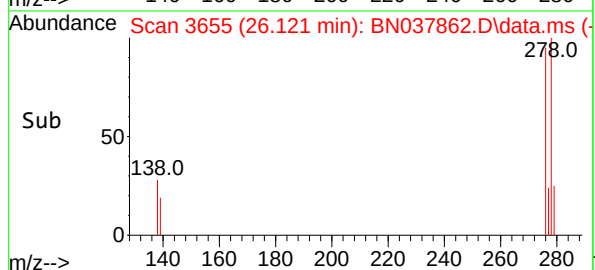
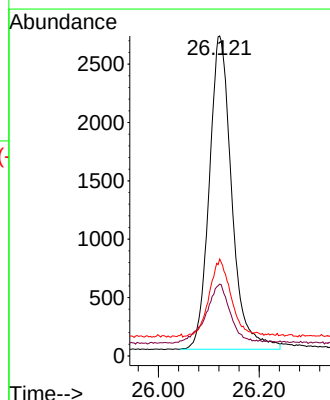
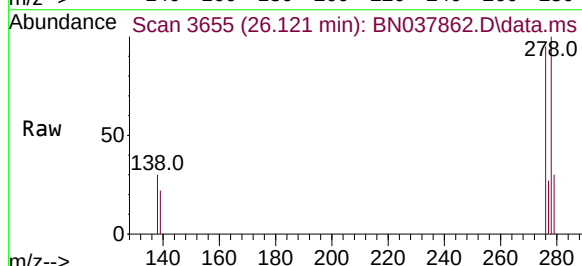
Tgt Ion:278 Resp: 8321

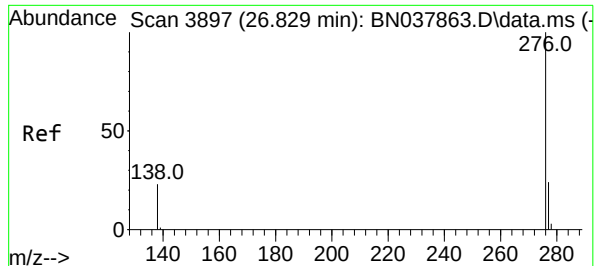
Ion Ratio Lower Upper

278 100

139 22.4 15.4 23.2

279 30.3 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037862.D

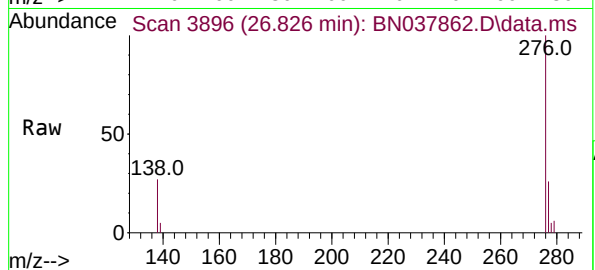
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



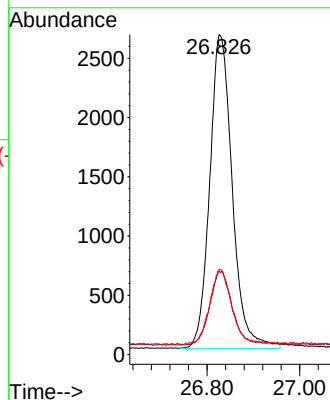
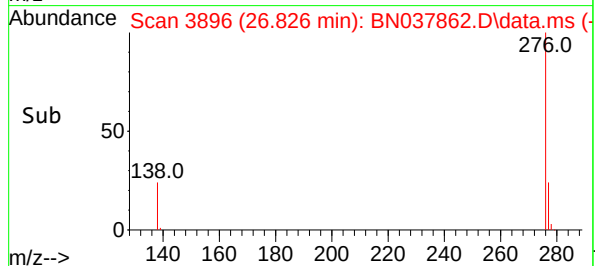
Tgt Ion:276 Resp: 8956

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037863.D
 Acq On : 23 Sep 2025 13:25
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

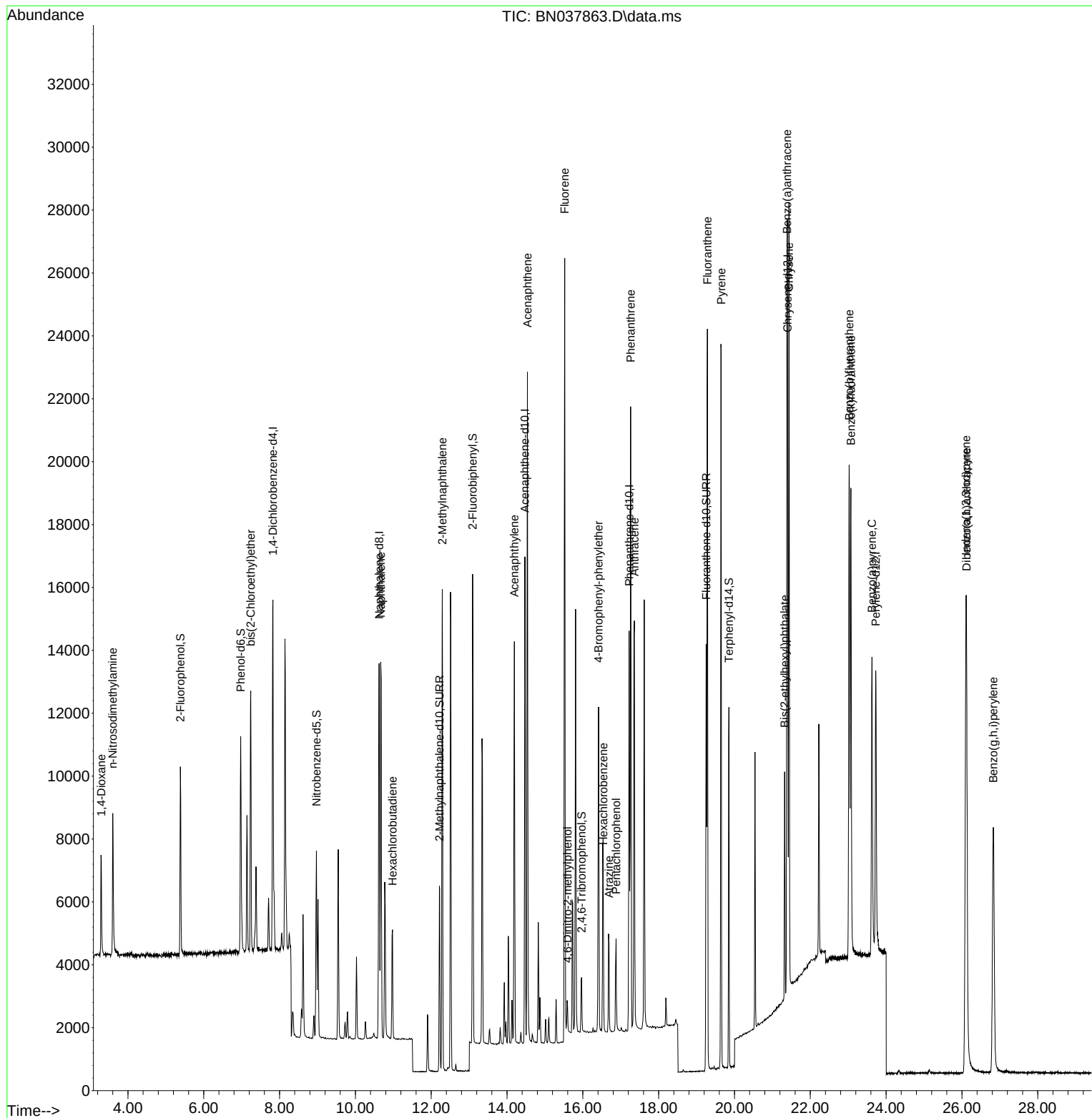
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13579	0.400	ng	0.00
35) Perylene-d12	23.727	264	12579	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4779	0.375	ng	0.00
5) Phenol-d6	6.973	99	6244	0.373	ng	0.00
8) Nitrobenzene-d5	8.971	82	4566	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	7877	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1117	0.336	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	12861	0.381	ng	0.00
27) Fluoranthene-d10	19.253	212	14130	0.352	ng	0.00
31) Terphenyl-d14	19.852	244	10222	0.378	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.297	88	2288	0.404	ng	100
3) n-Nitrosodimethylamine	3.601	42	2885	0.383	ng	100
6) bis(2-Chloroethyl)ether	7.240	93	6041	0.389	ng	100
9) Naphthalene	10.669	128	16547	0.380	ng	100
10) Hexachlorobutadiene	10.979	225	2874	0.387	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10542	0.371	ng	100
16) Acenaphthylene	14.195	152	13712	0.366	ng	100
17) Acenaphthene	14.537	154	9880	0.370	ng	100
18) Fluorene	15.523	166	11975	0.371	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	696	0.406	ng	100
21) 4-Bromophenyl-phenylether	16.416	248	3896	0.375	ng	100
22) Hexachlorobenzene	16.540	284	4854	0.385	ng	100
23) Atrazine	16.689	200	2739	0.346	ng	100
24) Pentachlorophenol	16.875	266	1466	0.339	ng	100
25) Phenanthrene	17.260	178	19609	0.374	ng	100
26) Anthracene	17.360	178	16310	0.358	ng	100
28) Fluoranthene	19.285	202	20902	0.362	ng	100
30) Pyrene	19.647	202	20652	0.385	ng	100
32) Benzo(a)anthracene	21.384	228	17571	0.370	ng	100
33) Chrysene	21.438	228	19852	0.387	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	6617	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	20858	0.363	ng	100
37) Benzo(b)fluoranthene	23.025	252	20638	0.380	ng	100
38) Benzo(k)fluoranthene	23.072	252	20090	0.368	ng	100
39) Benzo(a)pyrene	23.625	252	15479	0.361	ng	100
40) Dibenzo(a,h)anthracene	26.118	278	16392	0.365	ng	100
41) Benzo(g,h,i)perylene	26.829	276	17656	0.374	ng	100

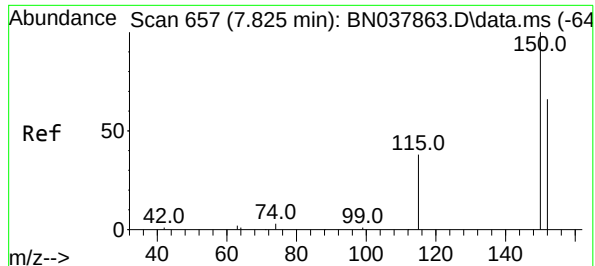
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037863.D
Acq On : 23 Sep 2025 13:25
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

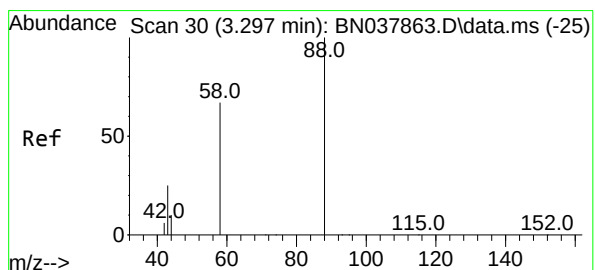
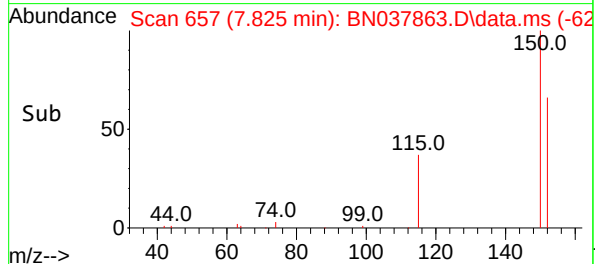
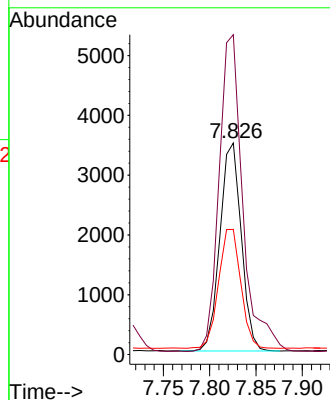
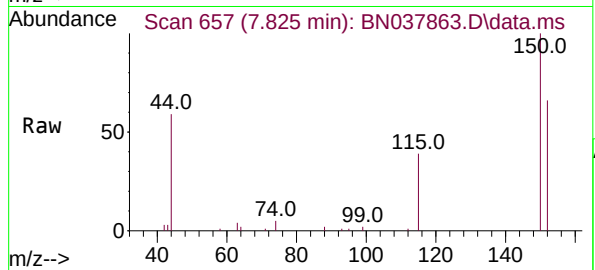




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

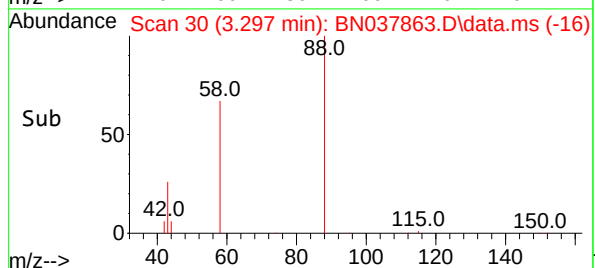
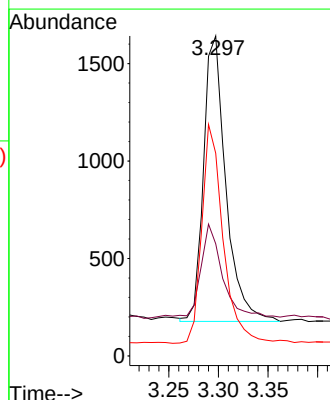
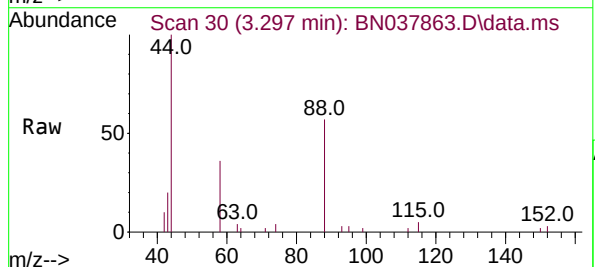
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

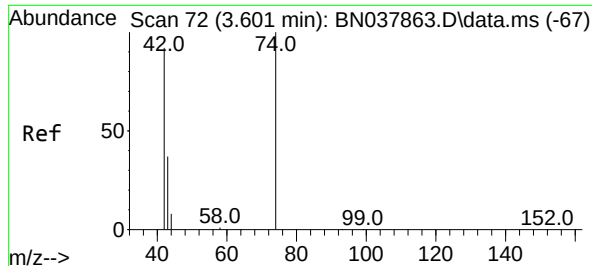
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 151.2 121.0 181.4
115 59.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 88 Resp: 2288
Ion Ratio Lower Upper
88 100
43 33.2 26.6 39.8
58 73.6 58.9 88.3

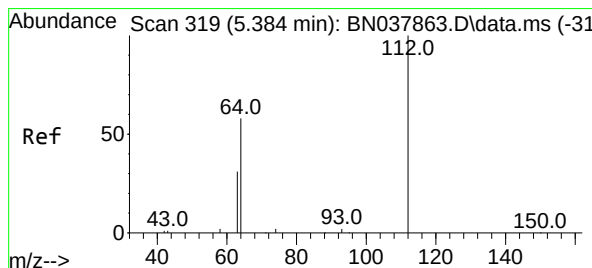
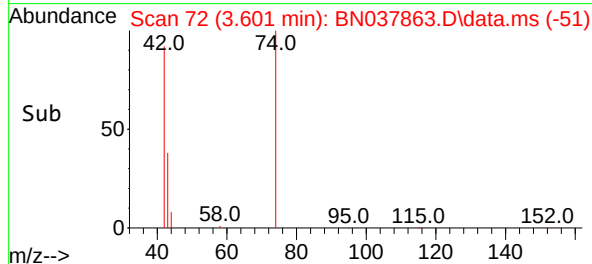
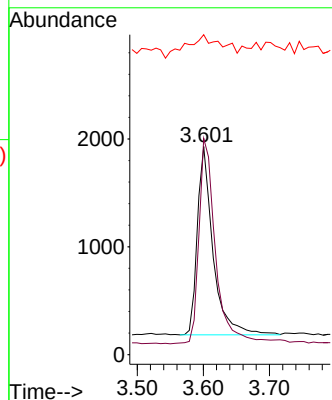
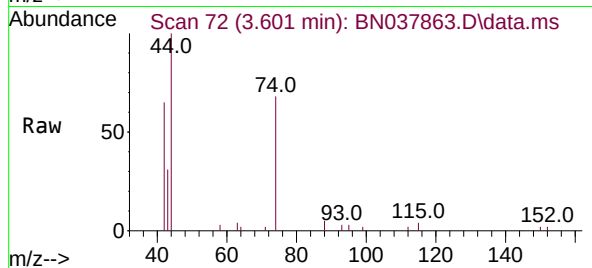




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

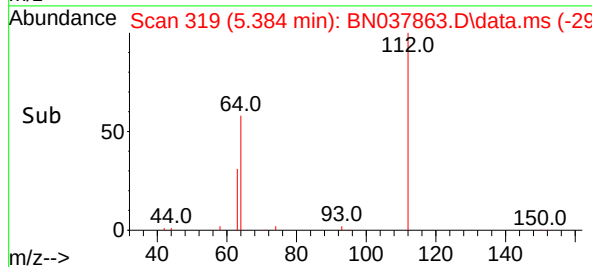
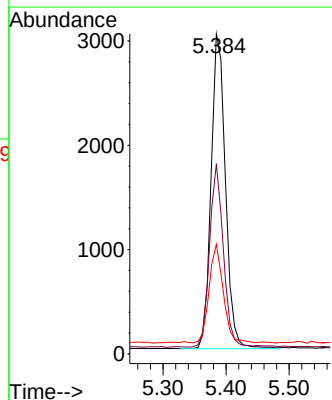
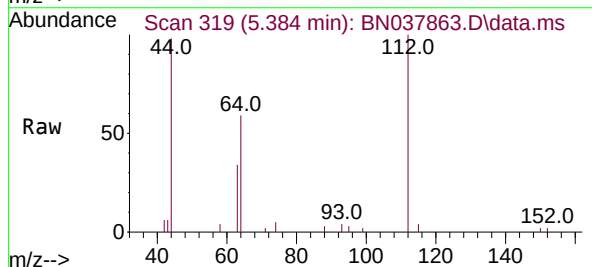
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

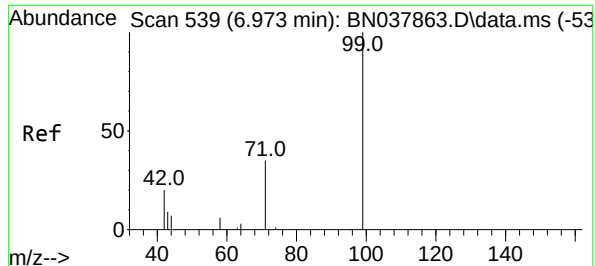
Tgt Ion: 42 Resp: 2885
Ion Ratio Lower Upper
42 100
74 116.7 93.4 140.0
44 27.8 22.2 33.4



#4
2-Fluorophenol
Concen: 0.375 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 112 Resp: 4779
Ion Ratio Lower Upper
112 100
64 55.7 44.6 66.8
63 31.1 24.9 37.3

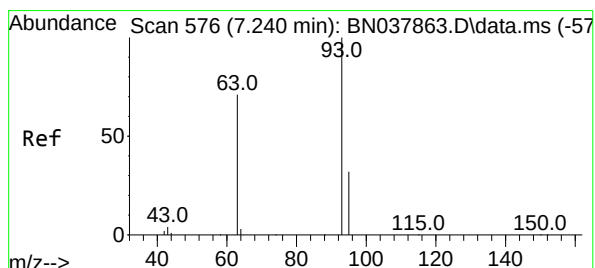
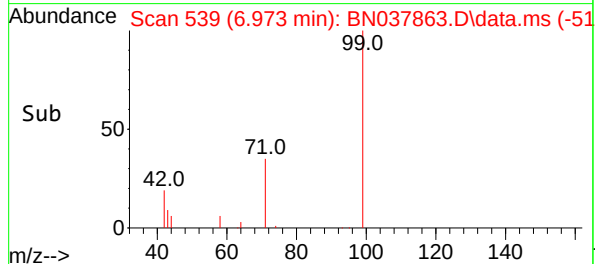
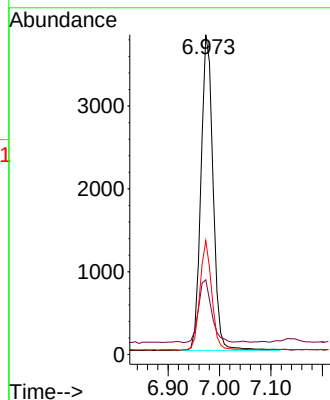
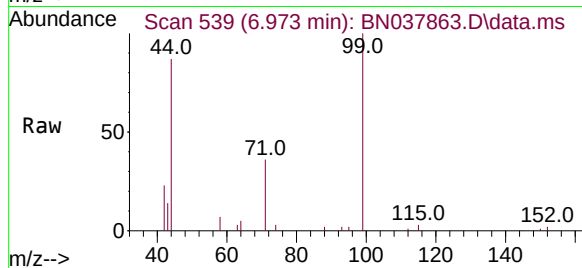




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

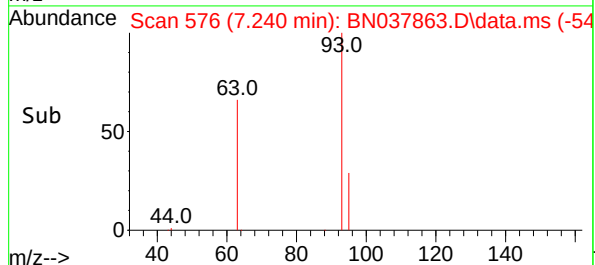
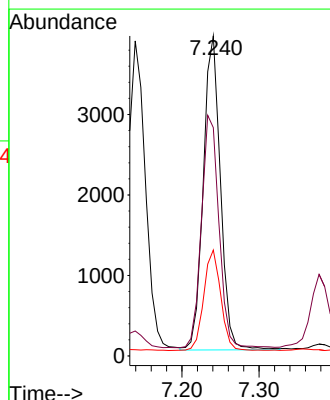
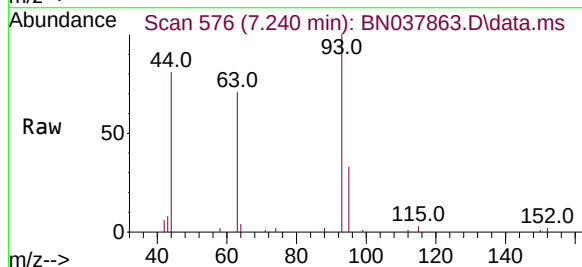
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

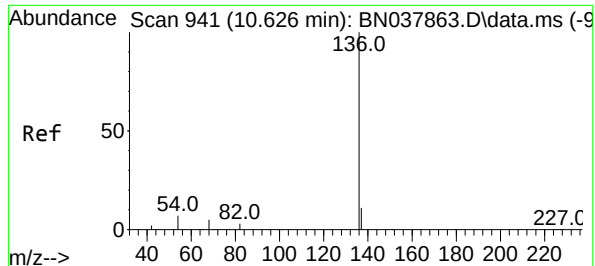
Tgt Ion:	99	Resp:	6244
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.389 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	93	Resp:	6041
Ion	Ratio	Lower	Upper
93	100		
63	75.1	60.1	90.1
95	31.8	25.4	38.2

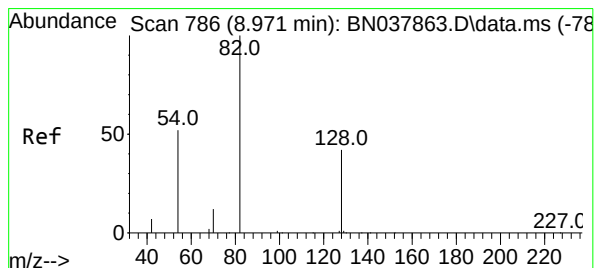
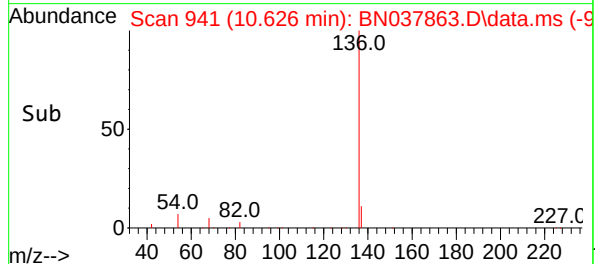
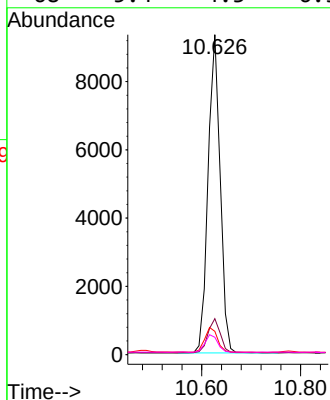
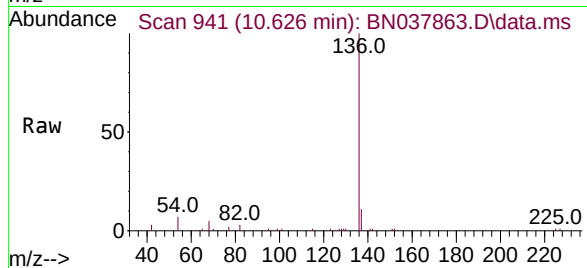




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

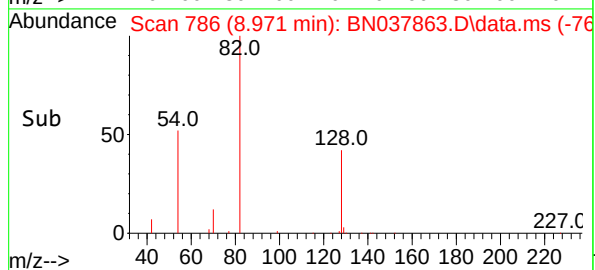
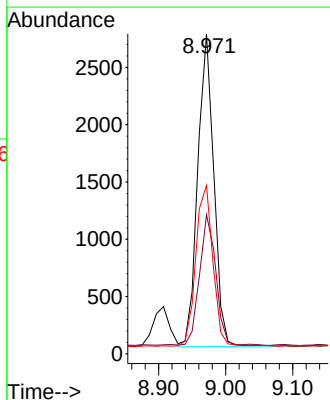
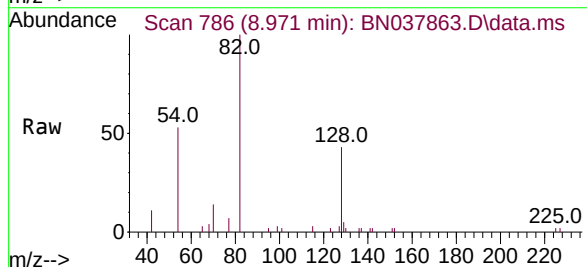
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

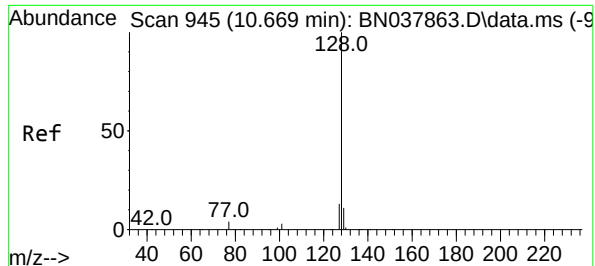
Tgt Ion:	136	Resp:	15792
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	82	Resp:	4566
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	52.7	42.2	63.2





#9

Naphthalene

Concen: 0.380 ng

RT: 10.669 min Scan# 945

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

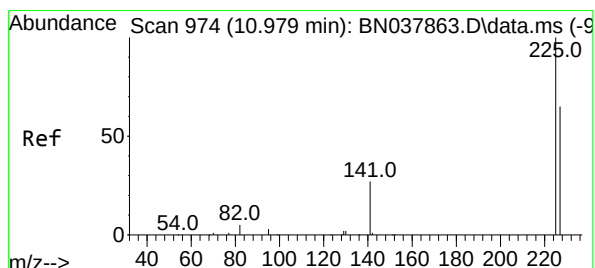
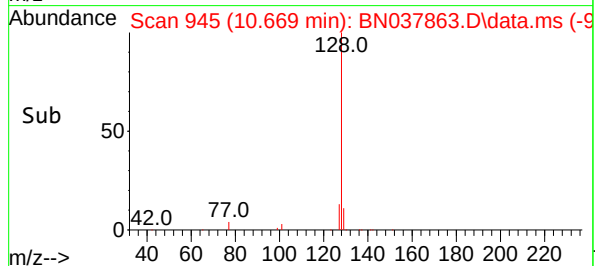
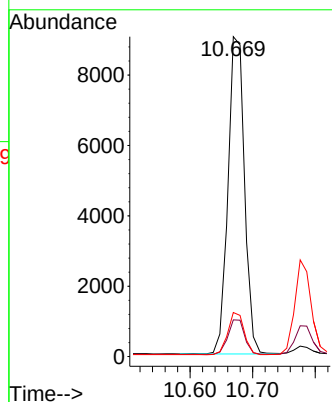
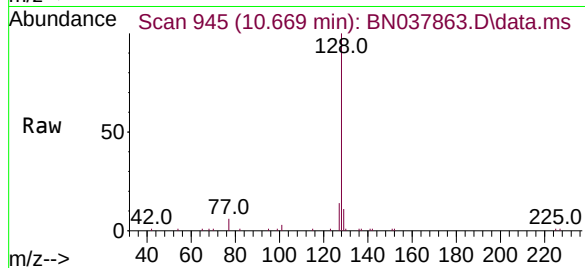
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:	128	Resp:	16547
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.8	11.0	16.6



#10

Hexachlorobutadiene

Concen: 0.387 ng

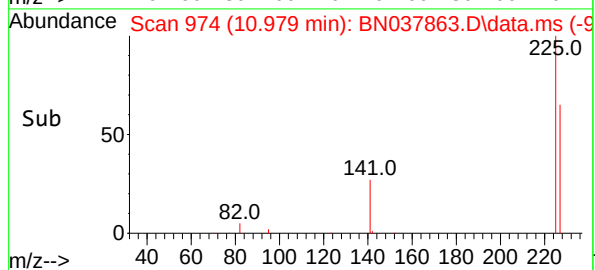
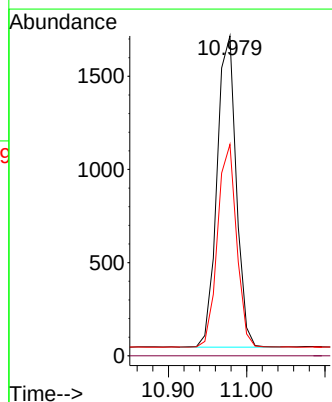
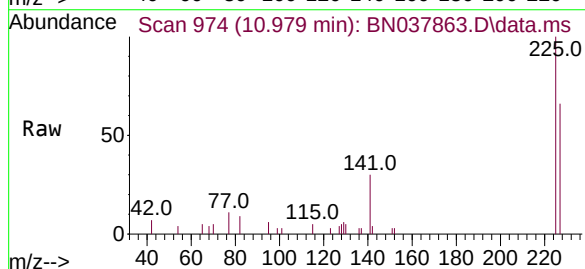
RT: 10.979 min Scan# 974

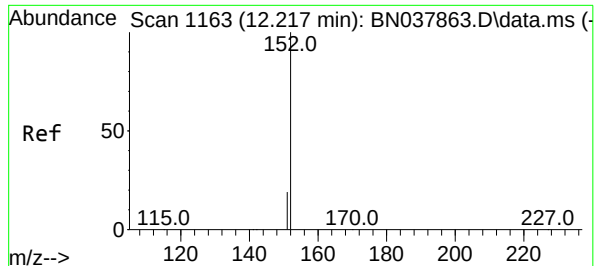
Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Tgt Ion:	225	Resp:	2874
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.4	77.2

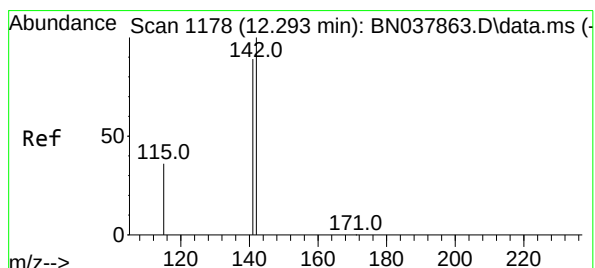
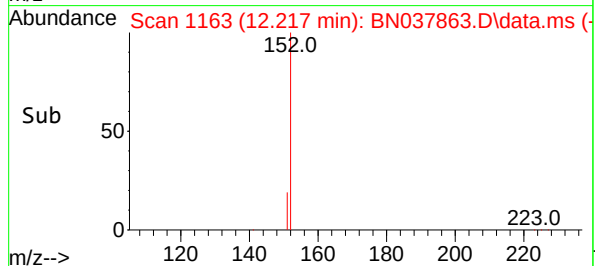
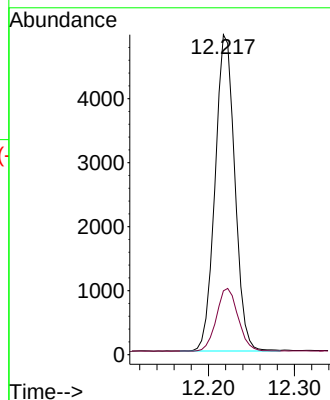
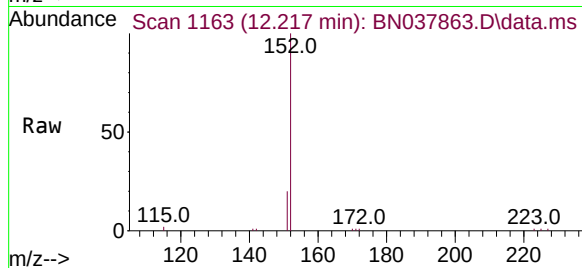




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

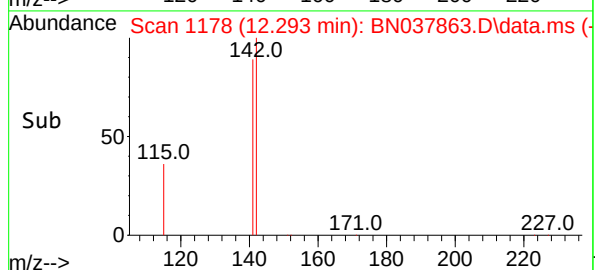
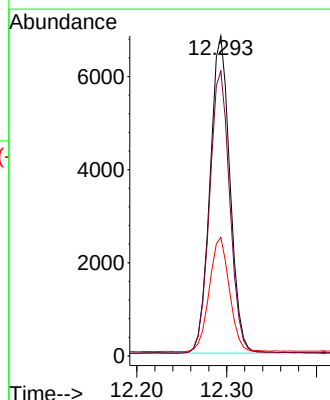
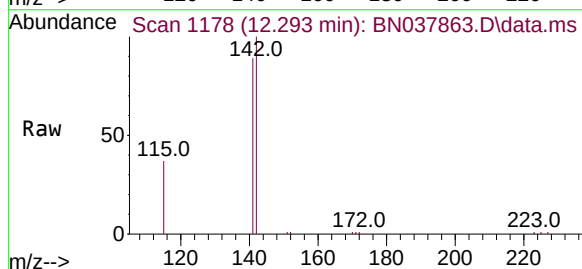
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

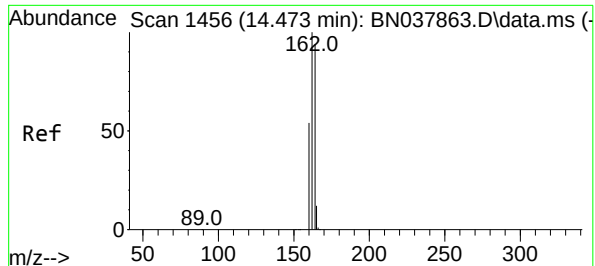
Tgt Ion:152 Resp: 7877
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:142 Resp: 10542
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 37.1 29.7 44.5

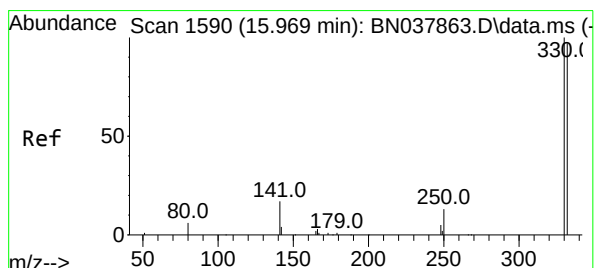
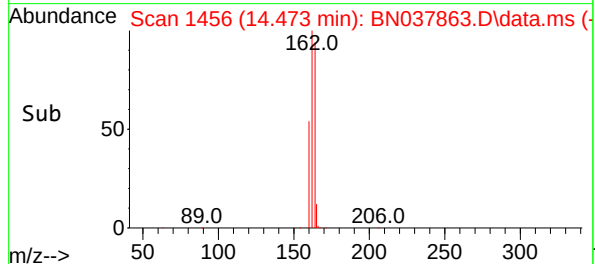
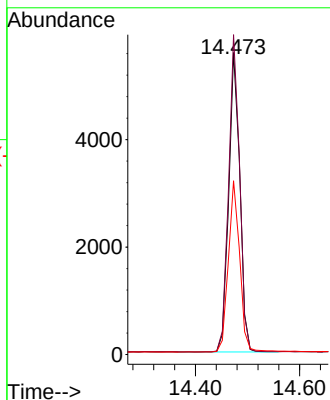
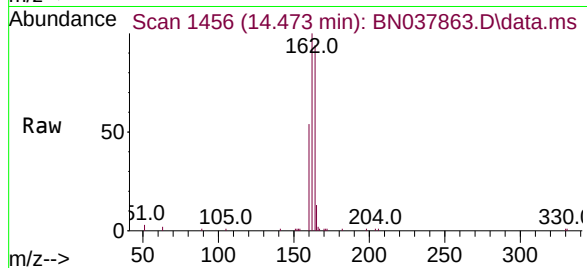




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

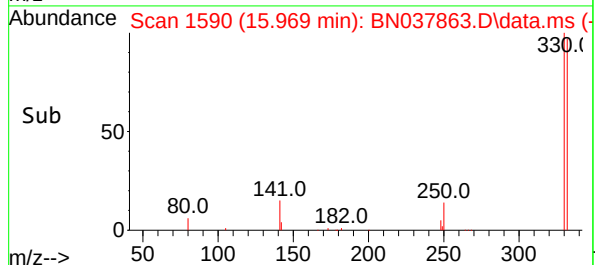
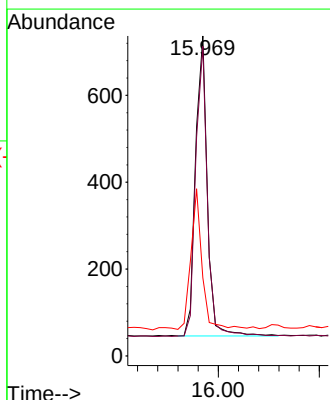
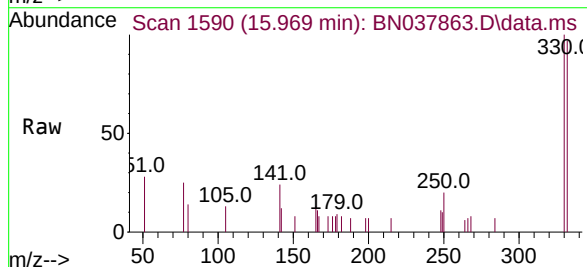
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

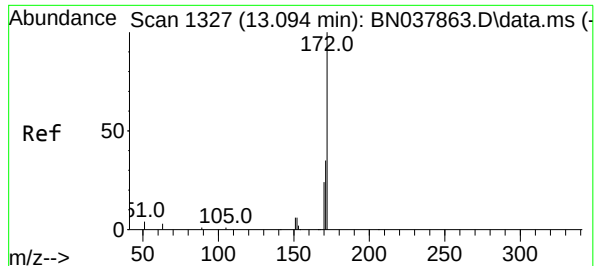
Tgt Ion:164 Resp: 8247
Ion Ratio Lower Upper
164 100
162 106.0 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:330 Resp: 1117
Ion Ratio Lower Upper
330 100
332 96.4 77.2 115.8
141 46.4 37.2 55.8

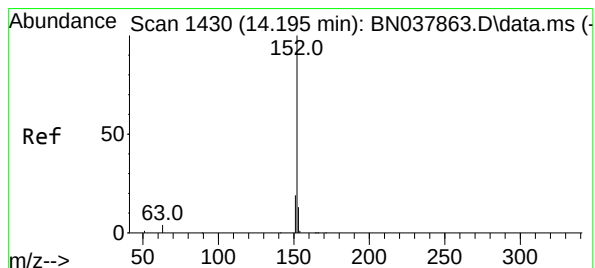
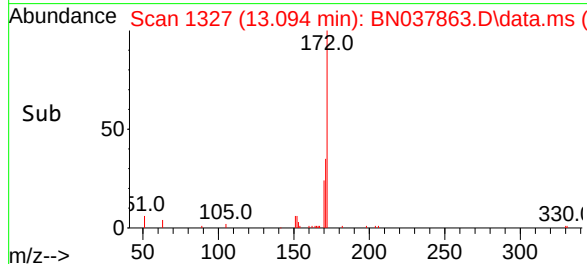
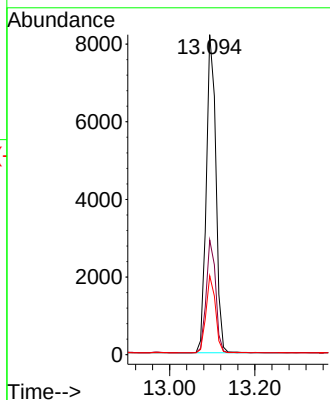
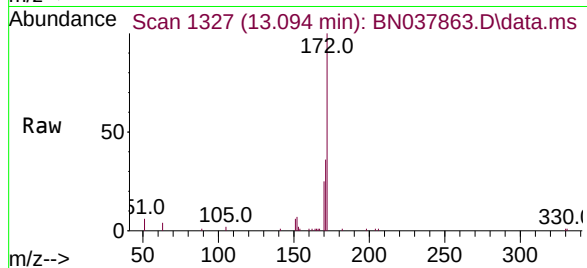




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

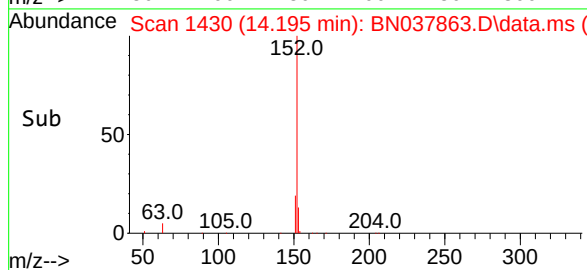
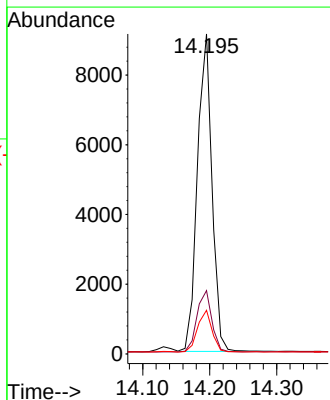
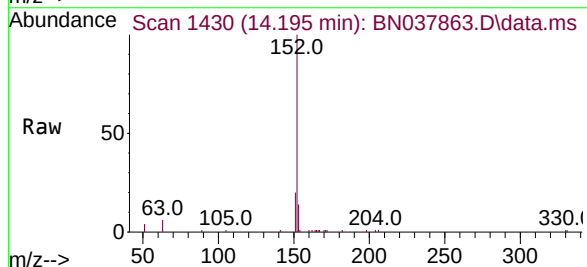
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

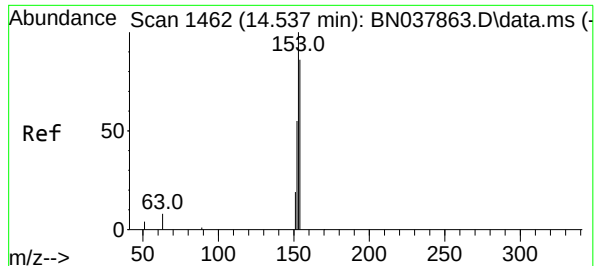
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.5	15.7





#17

Acenaphthene

Concen: 0.370 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

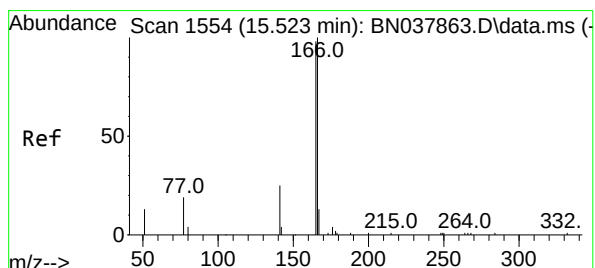
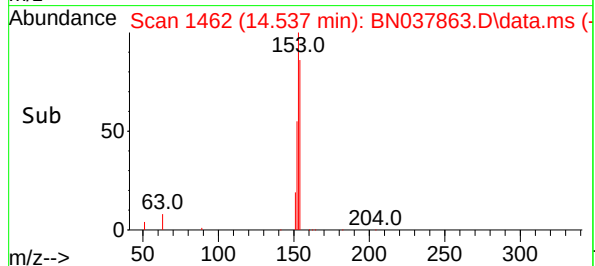
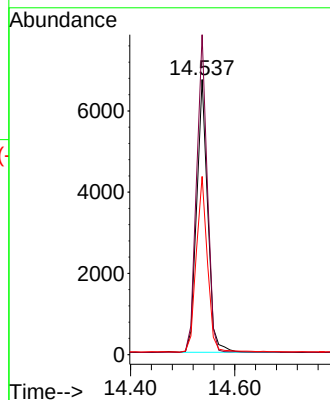
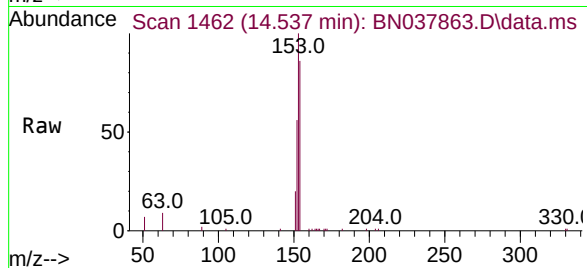
Tgt Ion:154 Resp: 9880

Ion Ratio Lower Upper

154 100

153 113.1 90.5 135.7

152 64.8 51.8 77.8



#18

Fluorene

Concen: 0.371 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

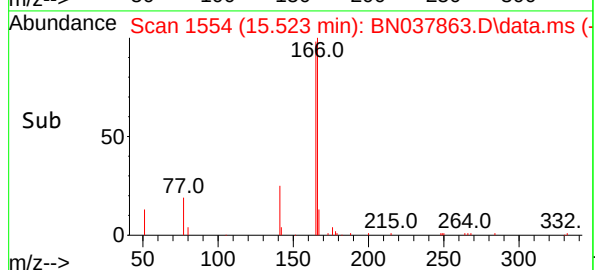
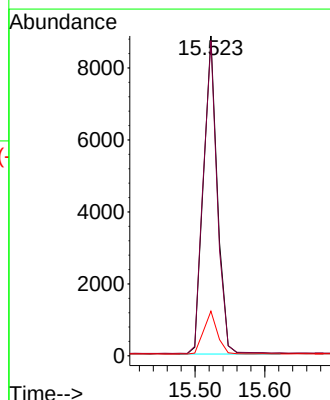
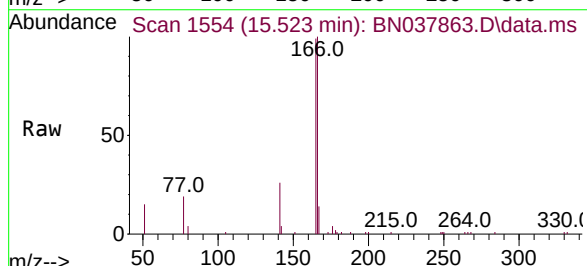
Tgt Ion:166 Resp: 11975

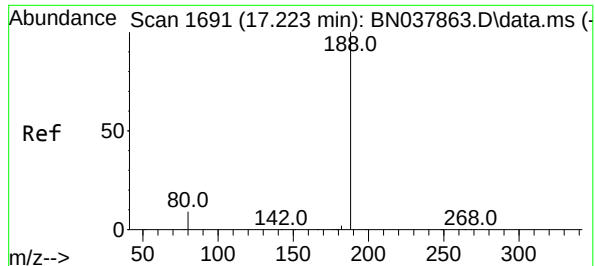
Ion Ratio Lower Upper

166 100

165 99.0 79.0 118.4

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

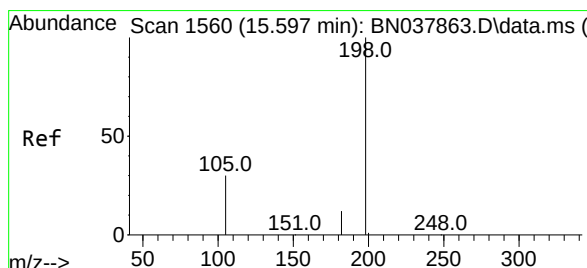
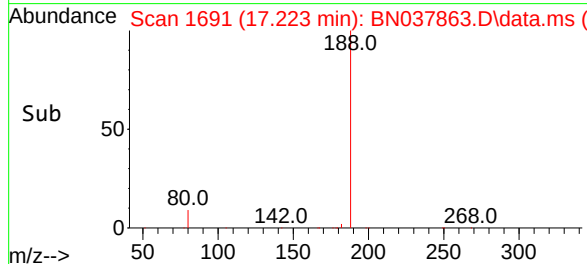
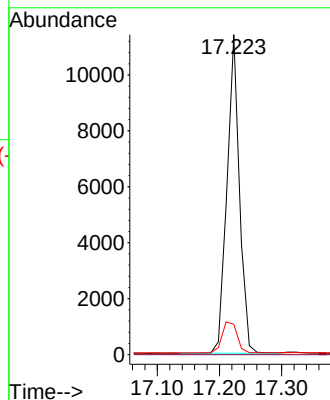
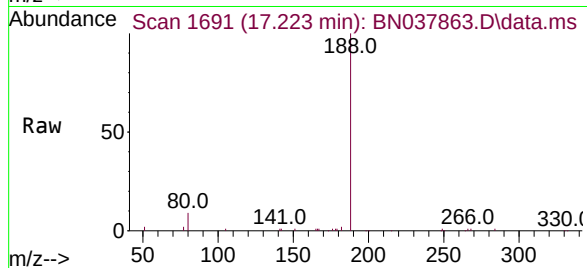
Tgt Ion:188 Resp: 15939

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.406 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

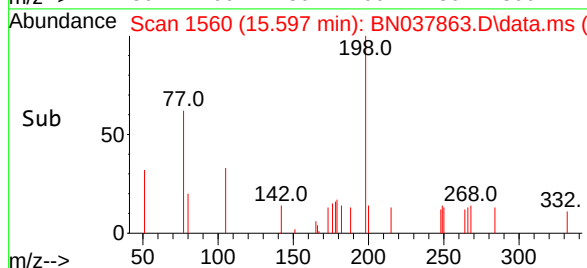
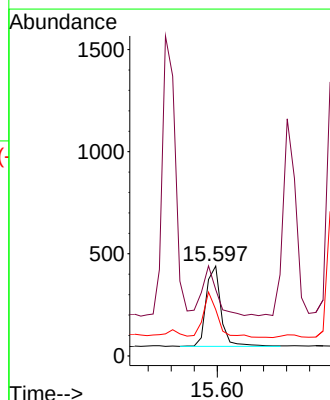
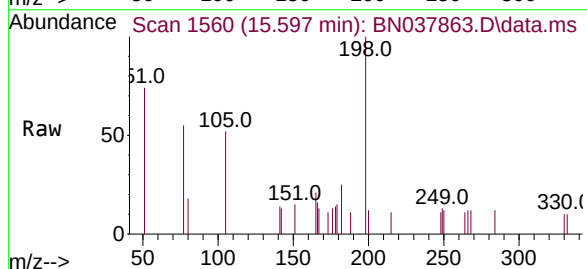
Tgt Ion:198 Resp: 696

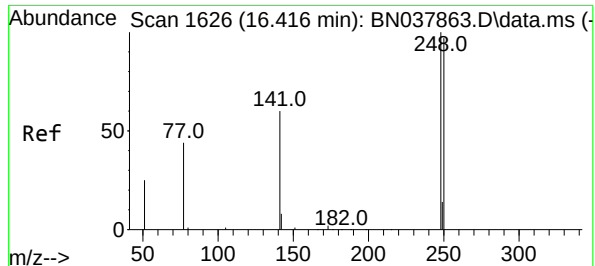
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

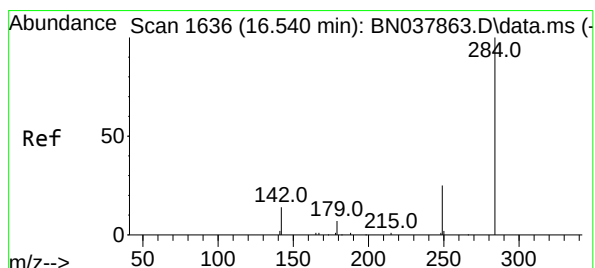
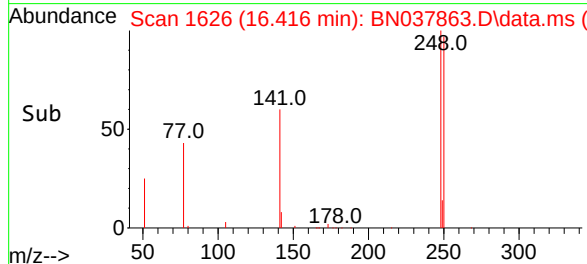
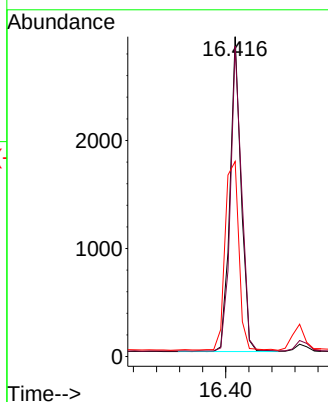
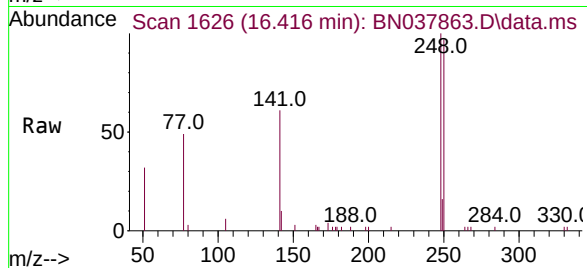




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

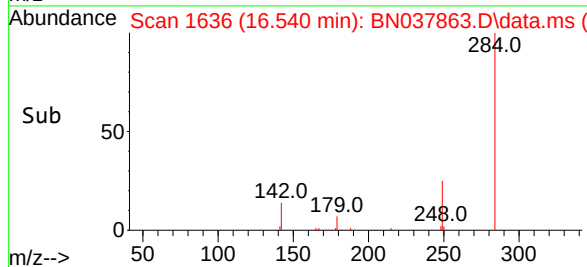
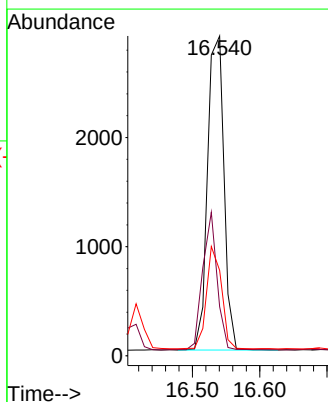
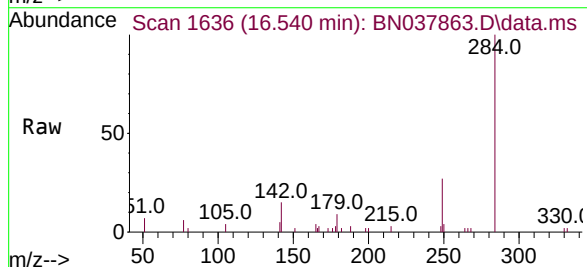
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

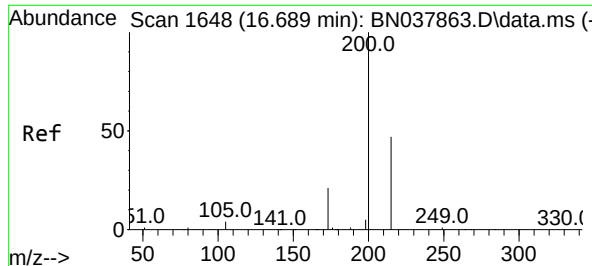
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.6	116.4
141	61.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.385 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.9	23.9	35.9





#23

Atrazine

Concen: 0.346 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

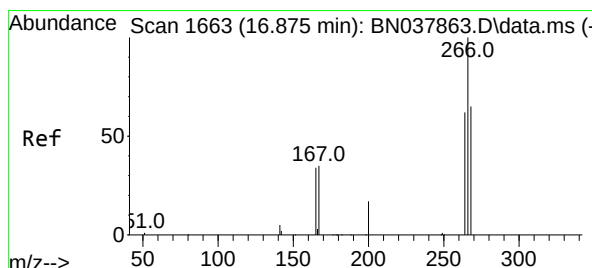
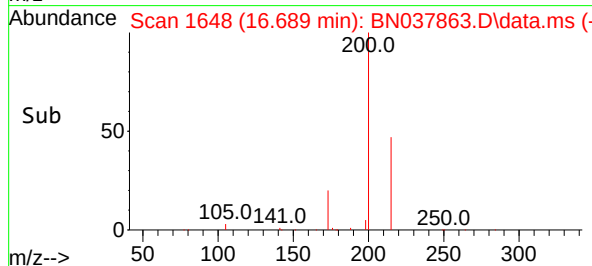
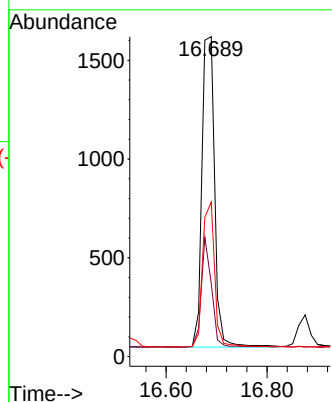
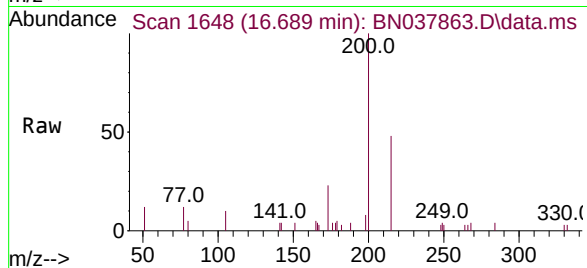
Tgt Ion:200 Resp: 2739

Ion Ratio Lower Upper

200 100

173 22.9 18.3 27.5

215 48.3 38.6 58.0



#24

Pentachlorophenol

Concen: 0.339 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

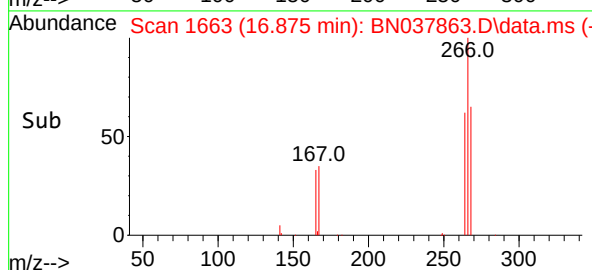
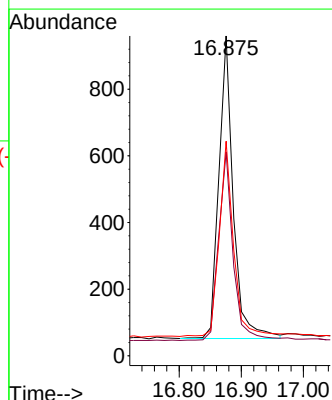
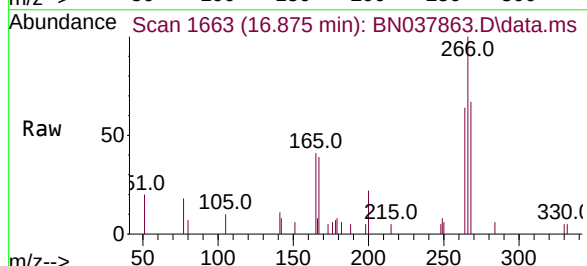
Tgt Ion:266 Resp: 1466

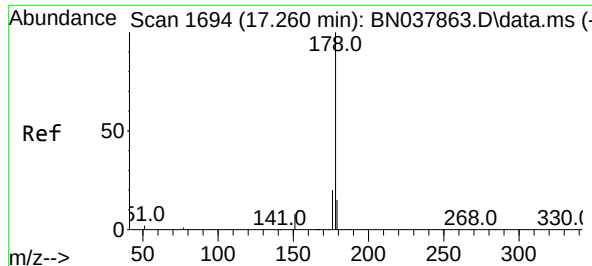
Ion Ratio Lower Upper

266 100

264 63.6 50.9 76.3

268 67.9 54.3 81.5





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

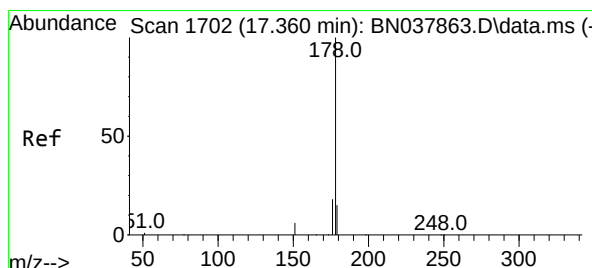
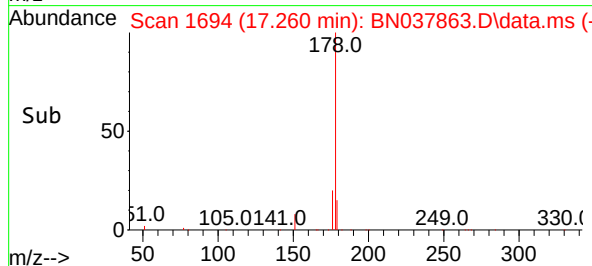
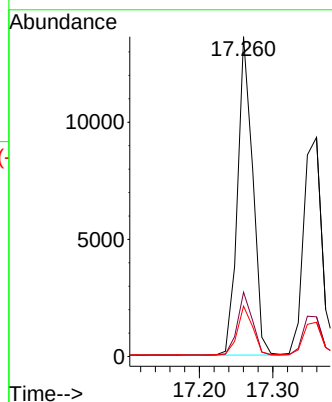
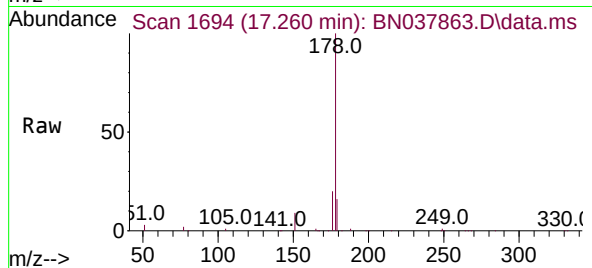
Tgt Ion:178 Resp: 19609

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.358 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

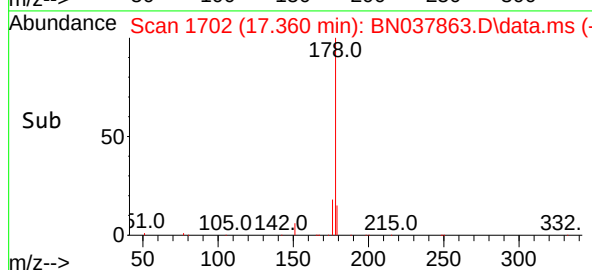
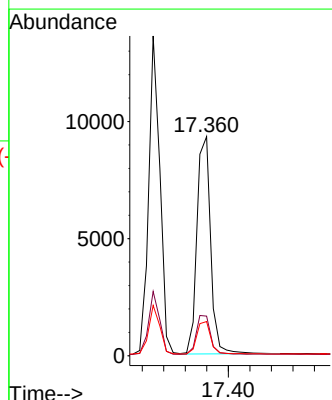
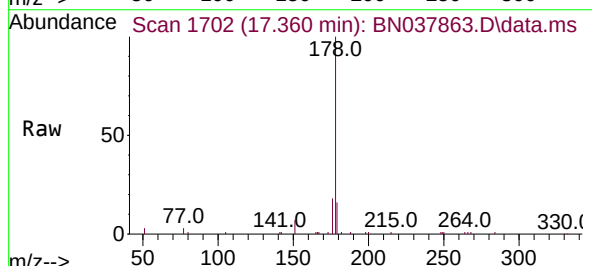
Tgt Ion:178 Resp: 16310

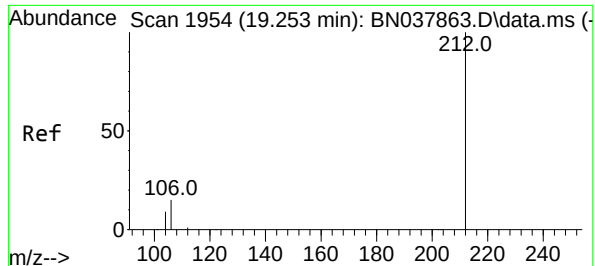
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

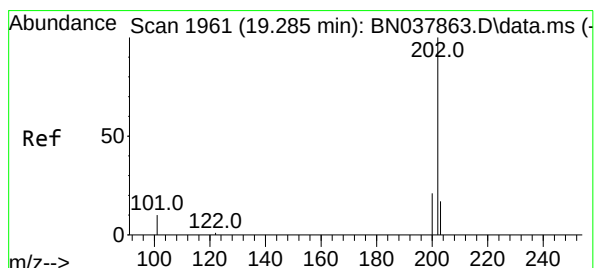
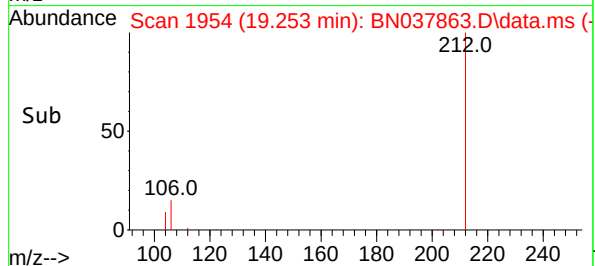
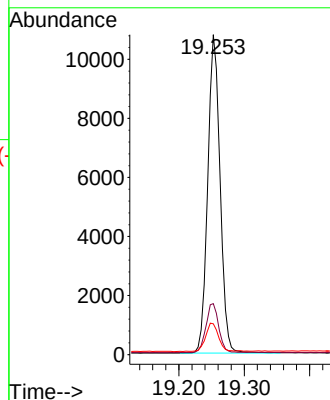
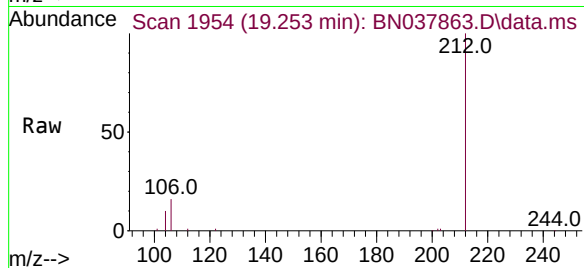
Tgt Ion:212 Resp: 14130

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

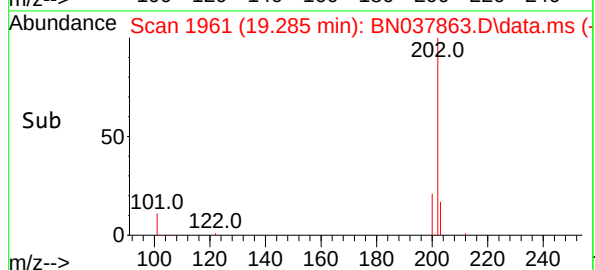
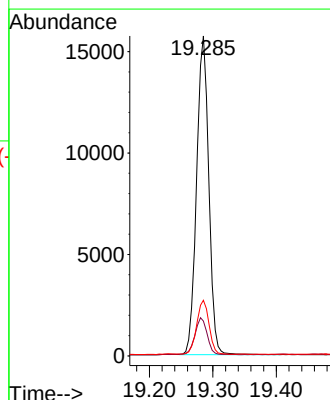
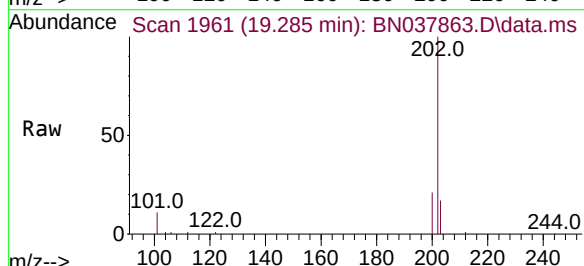
Tgt Ion:202 Resp: 20902

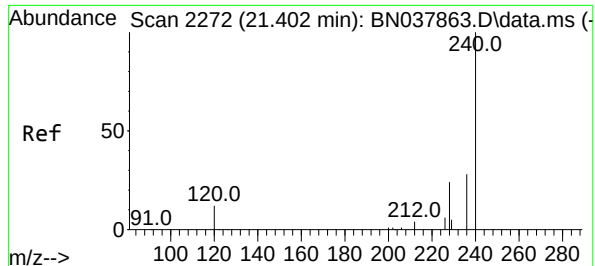
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

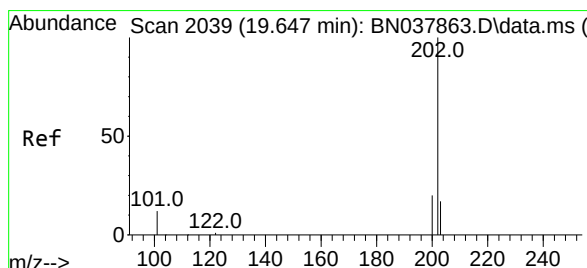
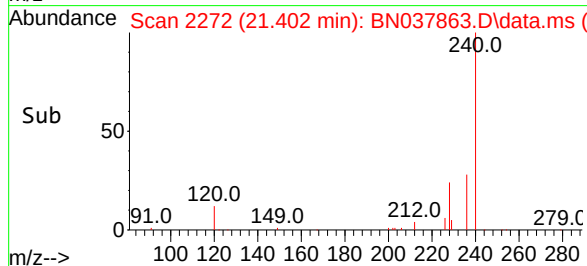
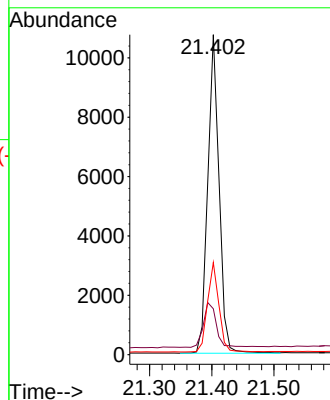
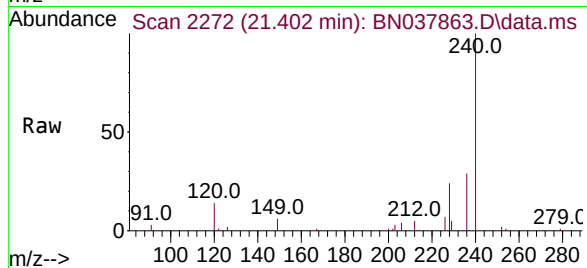
Tgt Ion:240 Resp: 13579

Ion Ratio Lower Upper

240 100

120 14.3 11.4 17.2

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.385 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

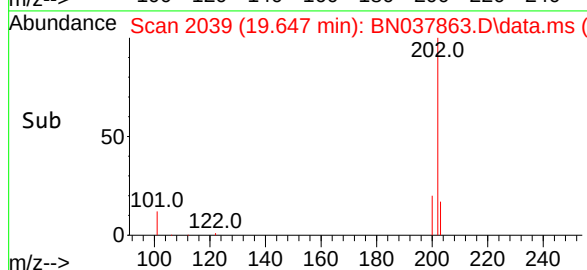
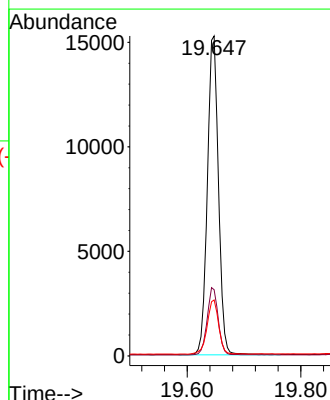
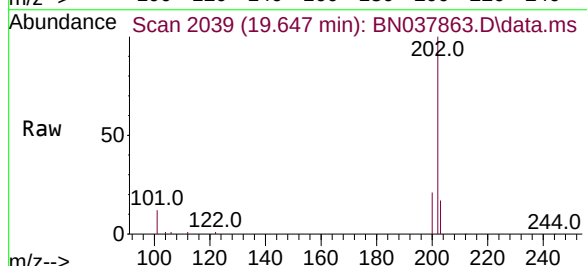
Tgt Ion:202 Resp: 20652

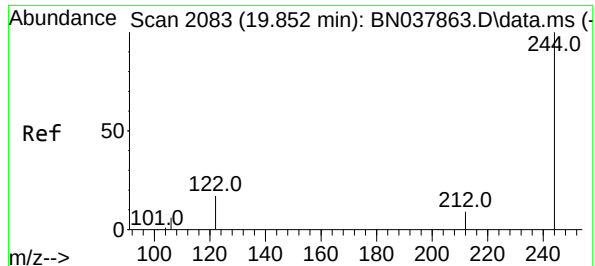
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

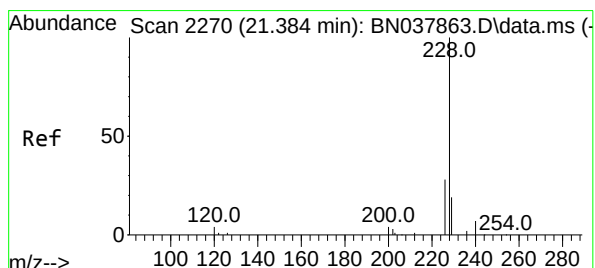
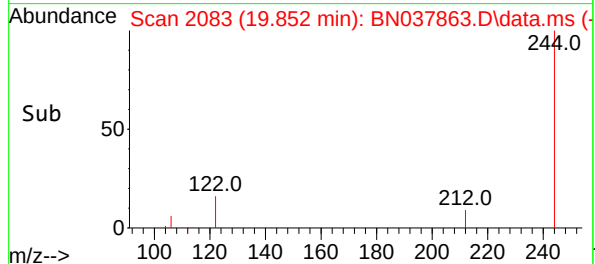
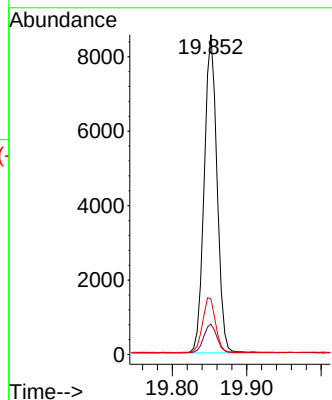
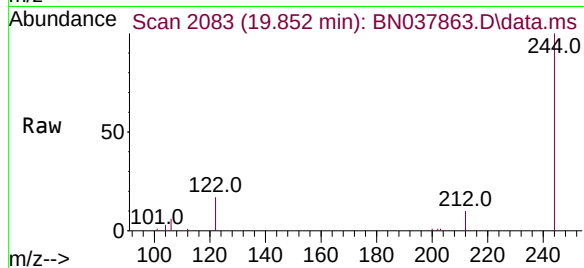




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

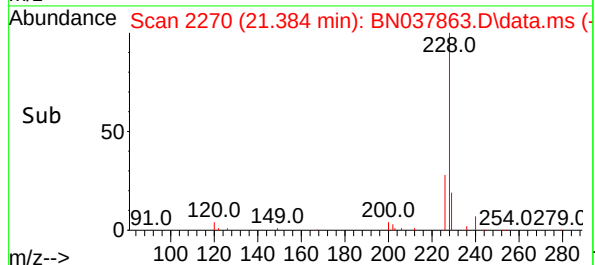
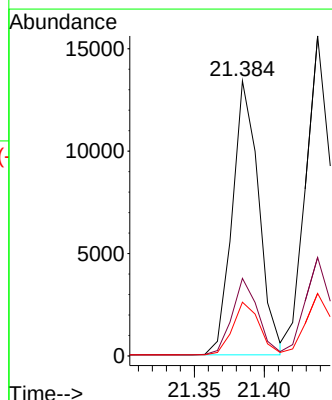
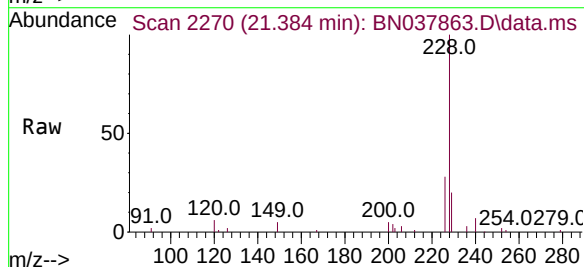
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

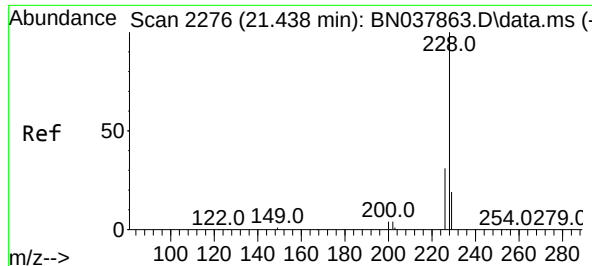
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.5	15.6	23.4





#33

Chrysene

Concen: 0.387 ng

RT: 21.438 min Scan# 2276

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

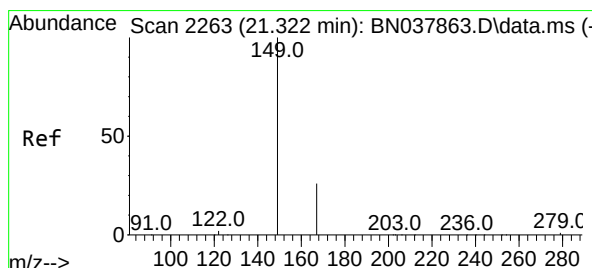
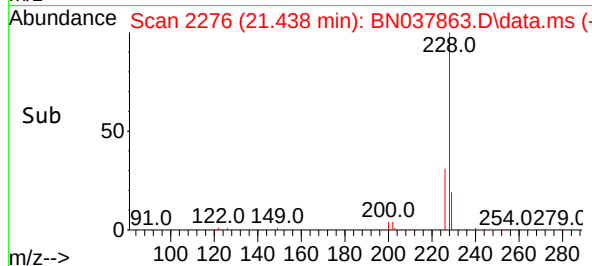
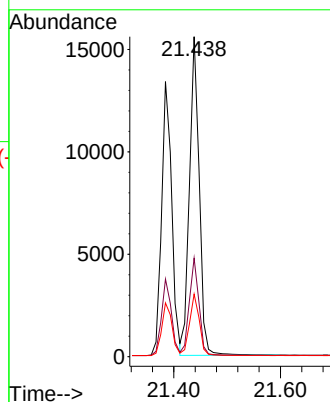
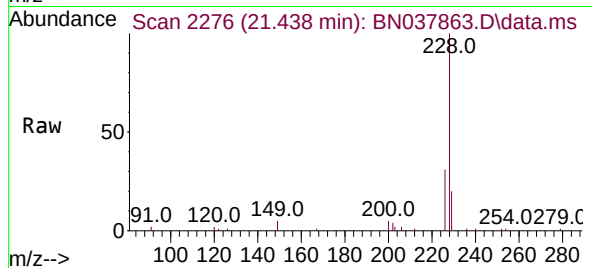
Tgt Ion:228 Resp: 19852

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

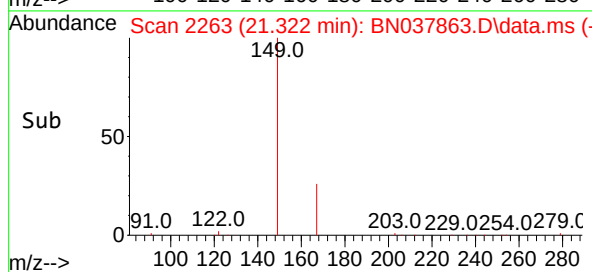
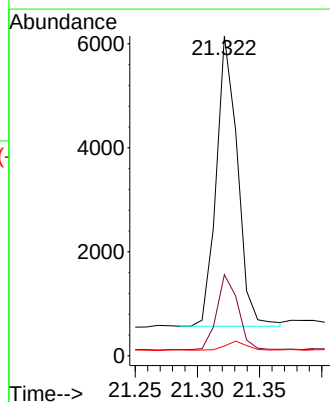
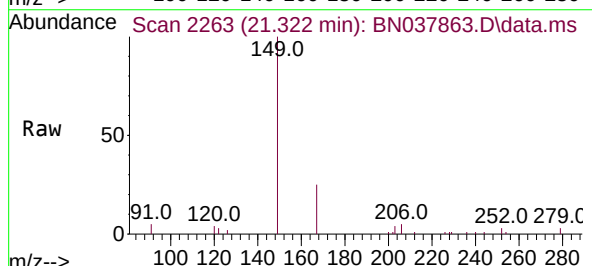
Tgt Ion:149 Resp: 6617

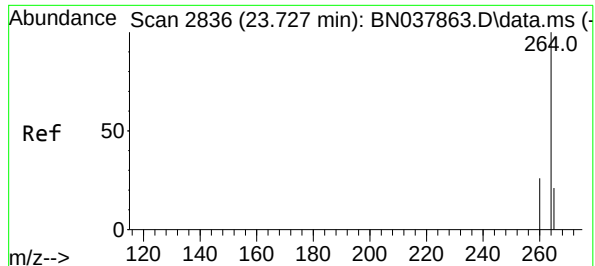
Ion Ratio Lower Upper

149 100

167 26.2 20.4 30.6

279 3.1 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.727 min Scan# 2836

Delta R.T. 0.000 min

Lab File: BN037863.D

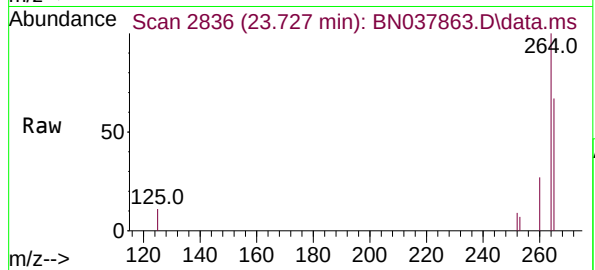
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



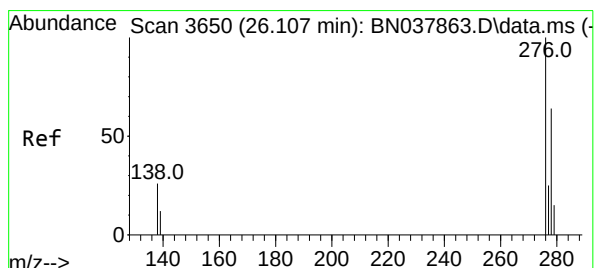
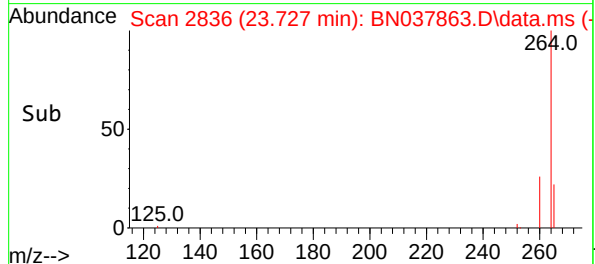
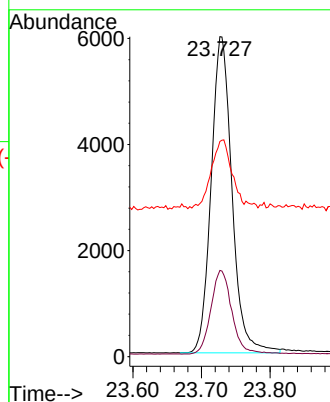
Tgt Ion:264 Resp: 12579

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.363 ng

RT: 26.107 min Scan# 3650

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

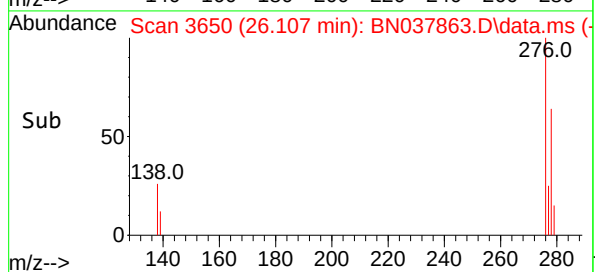
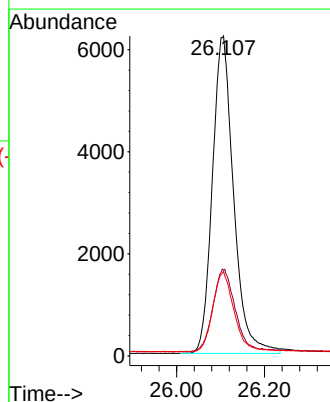
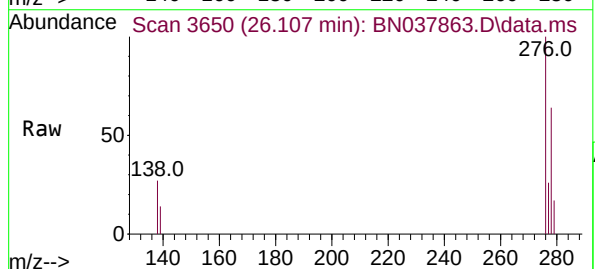
Tgt Ion:276 Resp: 20858

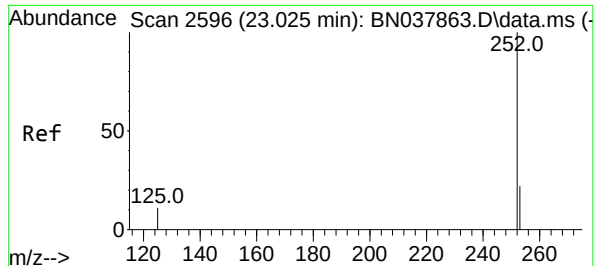
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.4 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

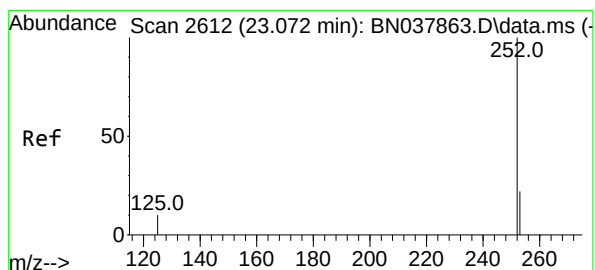
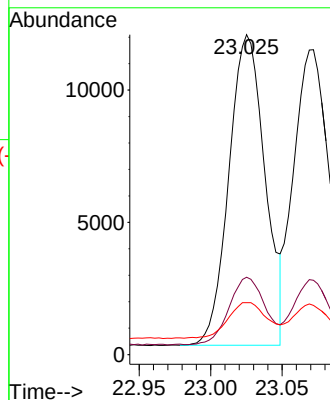
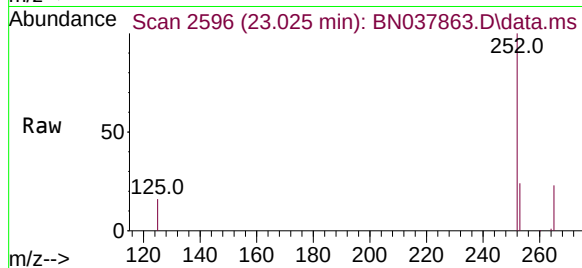
Tgt Ion:252 Resp: 20638

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 16.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

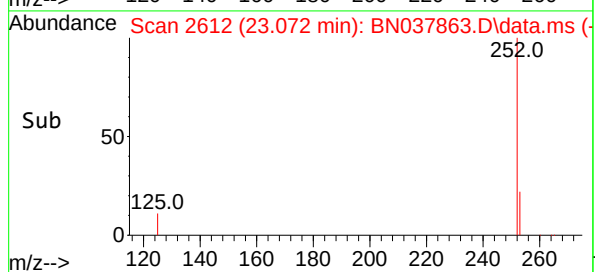
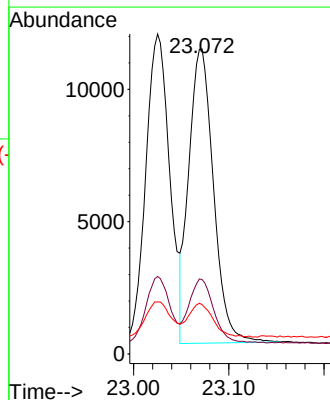
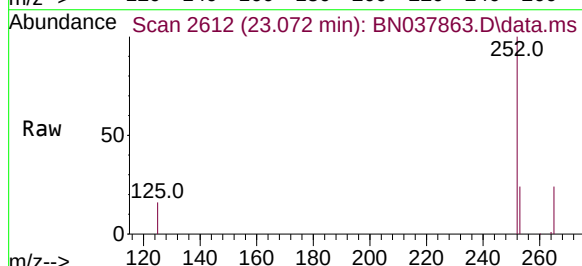
Tgt Ion:252 Resp: 20090

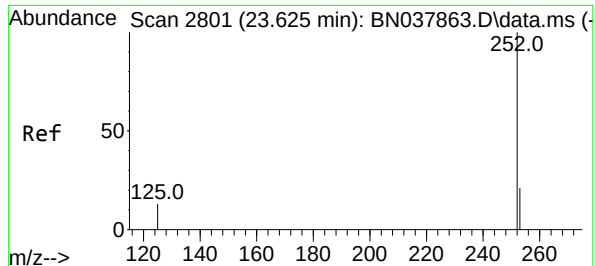
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

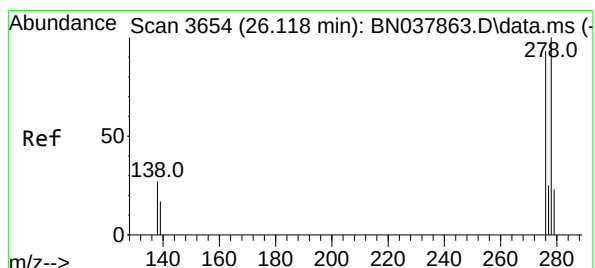
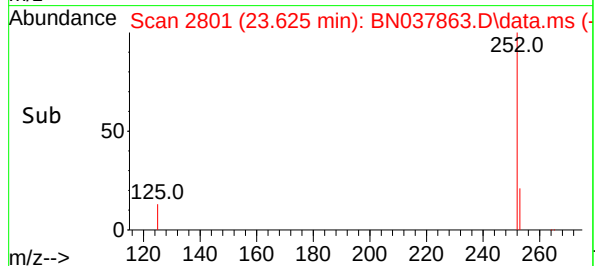
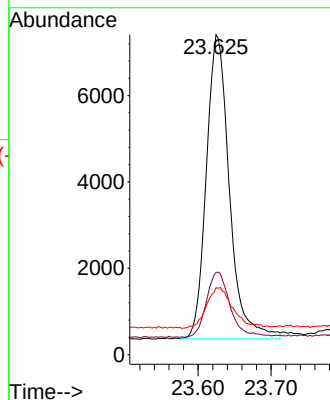
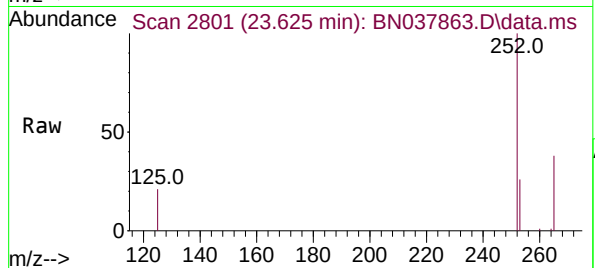
Tgt Ion:252 Resp: 15479

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

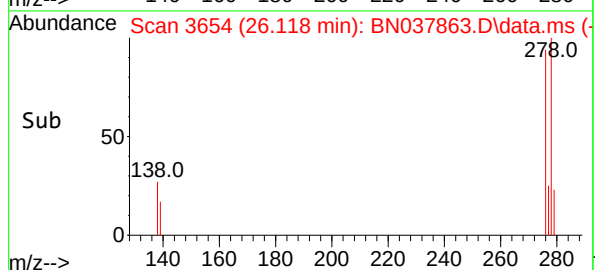
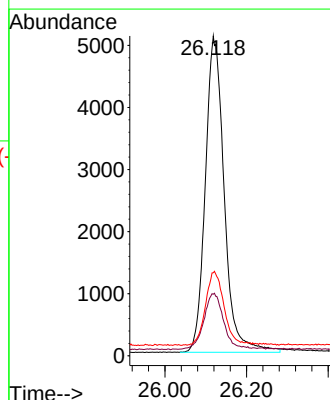
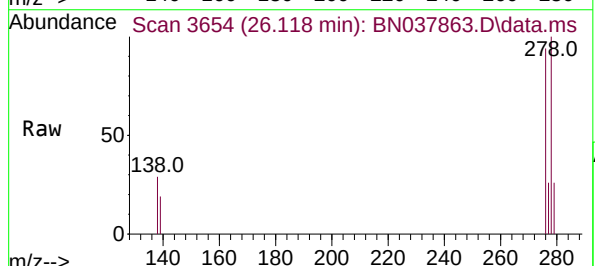
Tgt Ion:278 Resp: 16392

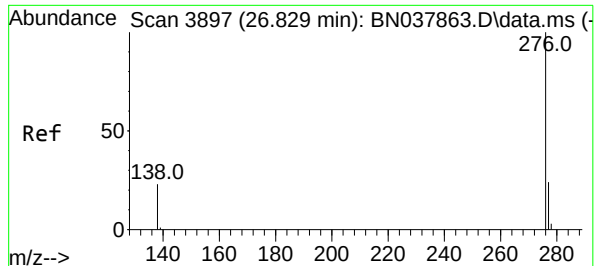
Ion Ratio Lower Upper

278 100

139 19.3 15.4 23.2

279 26.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.829 min Scan# 38

Delta R.T. 0.000 min

Lab File: BN037863.D

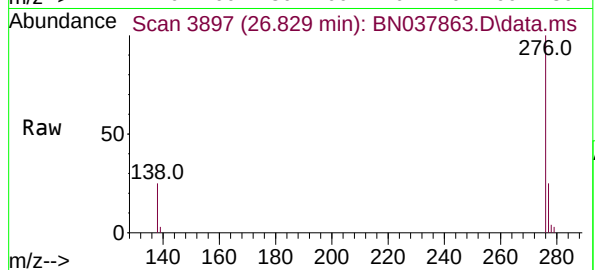
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



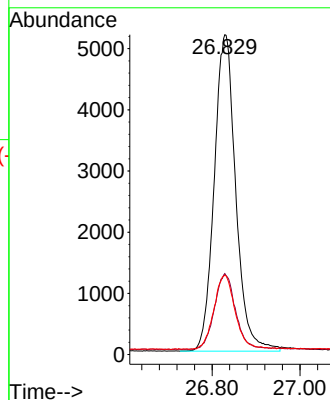
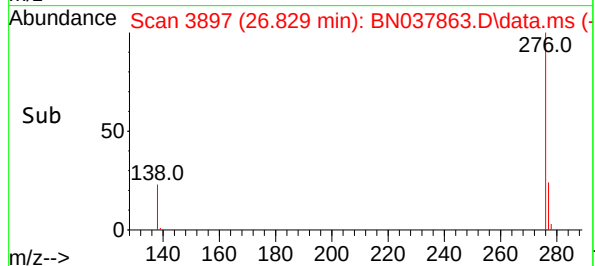
Tgt Ion:276 Resp: 17656

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 24.8 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037864.D
 Acq On : 23 Sep 2025 14:02
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

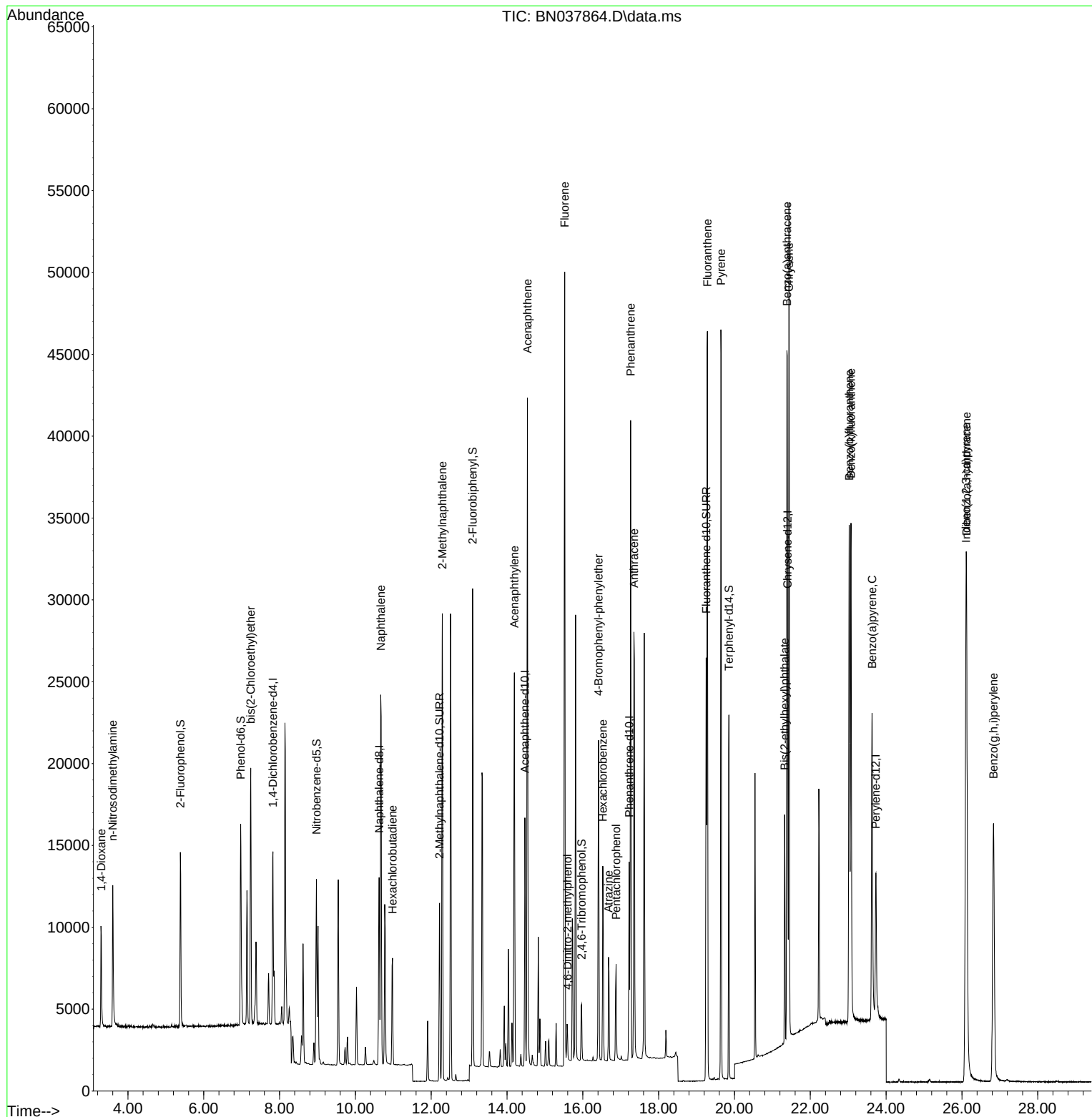
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13674	0.400	ng	0.00
35) Perylene-d12	23.730	264	12464	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	8737	0.736	ng	0.00
5) Phenol-d6	6.973	99	11319	0.725	ng	0.00
8) Nitrobenzene-d5	8.971	82	8536	0.761	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	14822	0.725	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	2186	0.687	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	24413	0.756	ng	0.00
27) Fluoranthene-d10	19.252	212	27365	0.715	ng	0.00
31) Terphenyl-d14	19.852	244	20095	0.738	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	4191	0.793	ng	98
3) n-Nitrosodimethylamine	3.600	42	5472	0.779	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	11096	0.766	ng	99
9) Naphthalene	10.669	128	30935	0.763	ng	99
10) Hexachlorobutadiene	10.979	225	5393	0.780	ng	# 99
12) 2-Methylnaphthalene	12.293	142	20065	0.758	ng	99
16) Acenaphthylene	14.195	152	26510	0.740	ng	99
17) Acenaphthene	14.537	154	19057	0.747	ng	100
18) Fluorene	15.522	166	23130	0.749	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	1414	0.755	ng	# 77
21) 4-Bromophenyl-phenylether	16.416	248	7412	0.748	ng	98
22) Hexachlorobenzene	16.528	284	9138	0.761	ng	99
23) Atrazine	16.677	200	5405	0.716	ng	# 87
24) Pentachlorophenol	16.875	266	2945	0.714	ng	97
25) Phenanthrene	17.260	178	37218	0.744	ng	99
26) Anthracene	17.347	178	32138	0.740	ng	100
28) Fluoranthene	19.285	202	41292	0.749	ng	100
30) Pyrene	19.643	202	40377	0.748	ng	100
32) Benzo(a)anthracene	21.384	228	35130	0.735	ng	100
33) Chrysene	21.438	228	39541	0.765	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	13026	0.689	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	42560	0.747	ng	100
37) Benzo(b)fluoranthene	23.025	252	39646	0.738	ng	96
38) Benzo(k)fluoranthene	23.075	252	40574	0.750	ng	96
39) Benzo(a)pyrene	23.627	252	31265	0.735	ng	94
40) Dibenzo(a,h)anthracene	26.121	278	33235	0.747	ng	98
41) Benzo(g,h,i)perylene	26.835	276	34817	0.745	ng	98

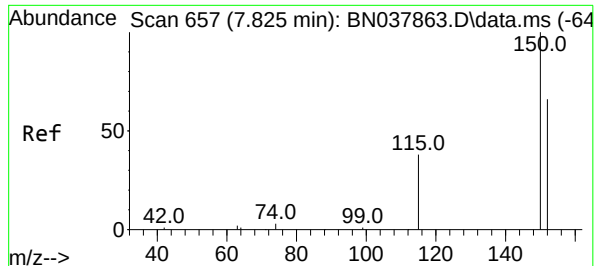
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037864.D
Acq On : 23 Sep 2025 14:02
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

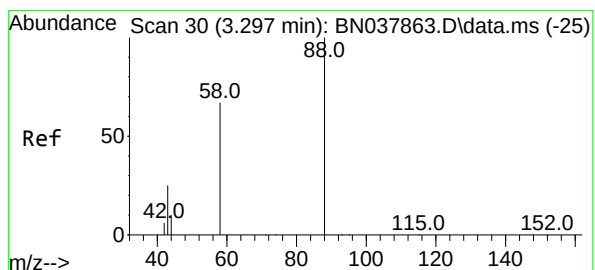
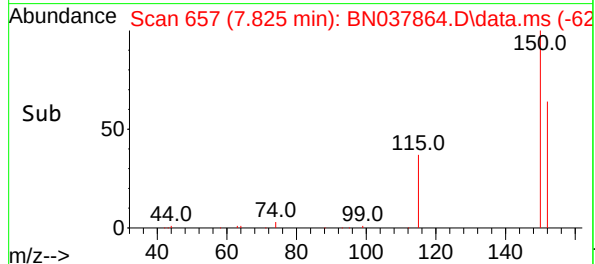
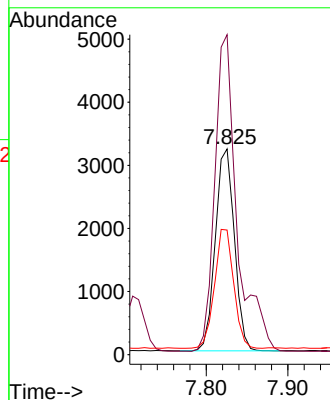
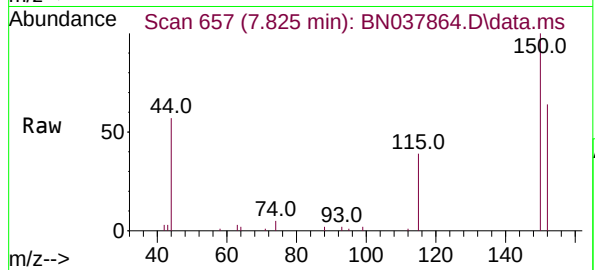




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

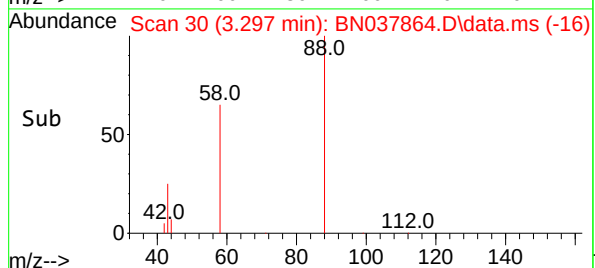
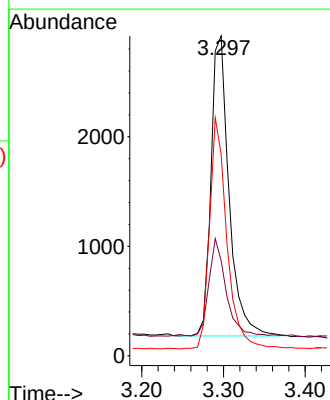
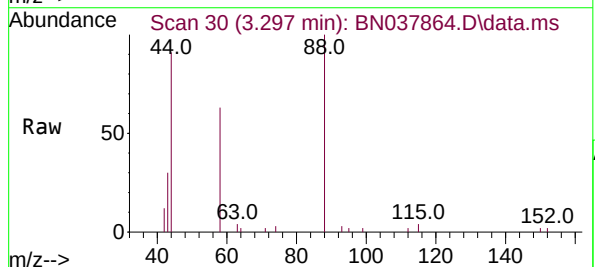
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

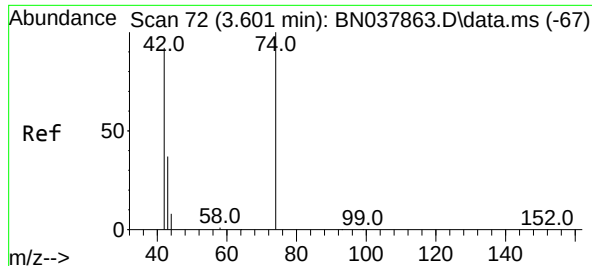
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.6 121.0 181.4
115 60.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.793 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 88 Resp: 4191
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 74.2 58.9 88.3

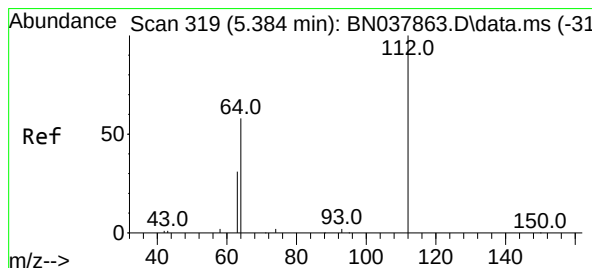
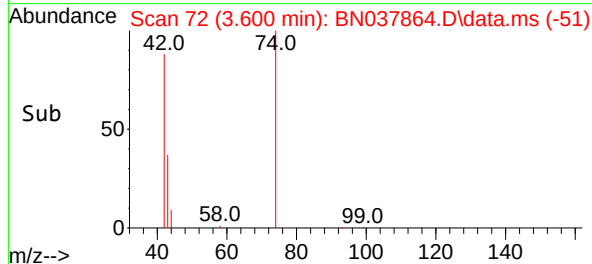
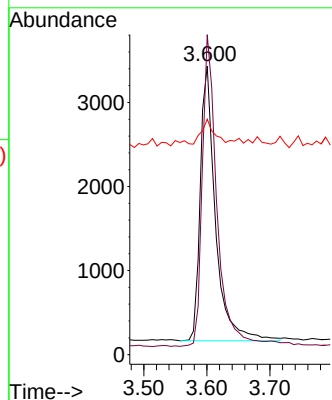
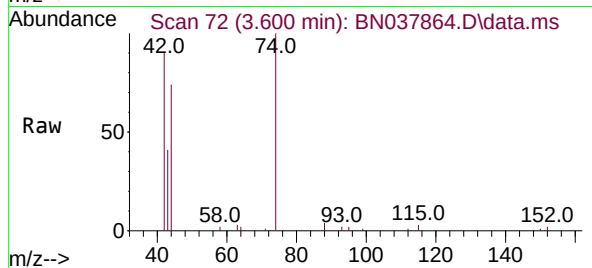




#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

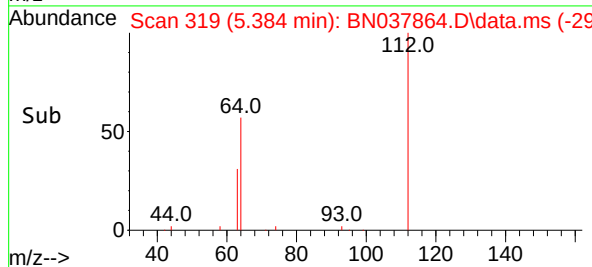
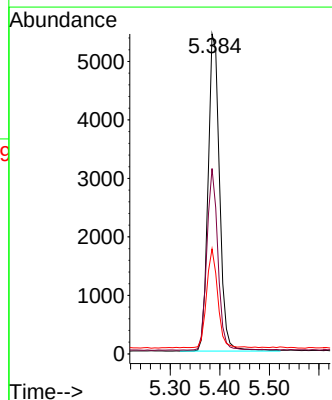
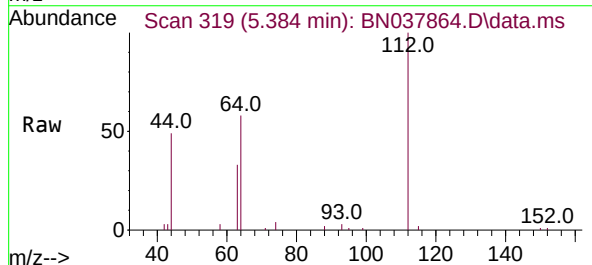
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

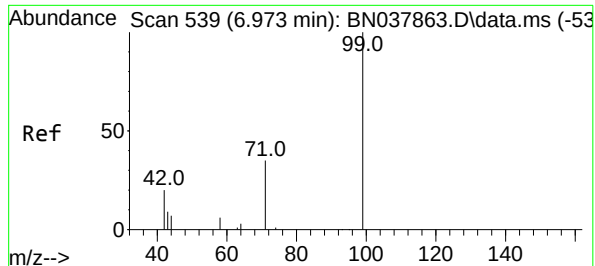
Tgt Ion: 42 Resp: 5472
Ion Ratio Lower Upper
42 100
74 111.5 93.4 140.0
44 7.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.736 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 112 Resp: 8737
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.8 24.9 37.3

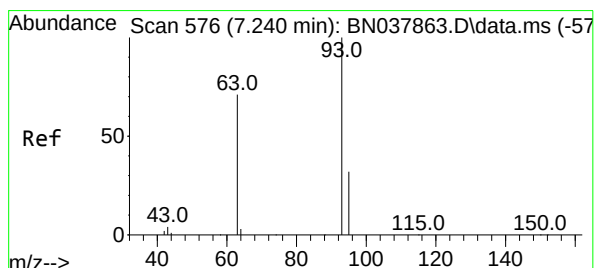
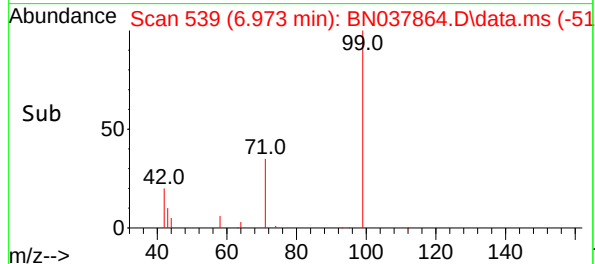
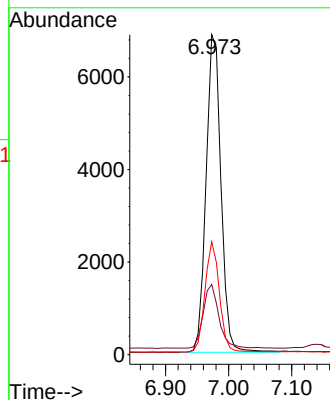
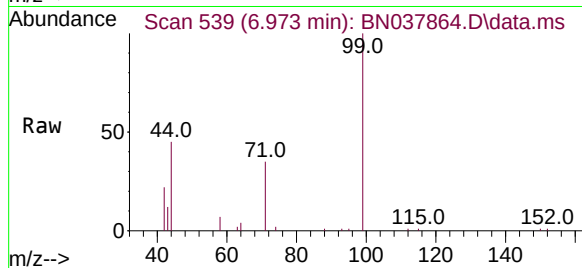




#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

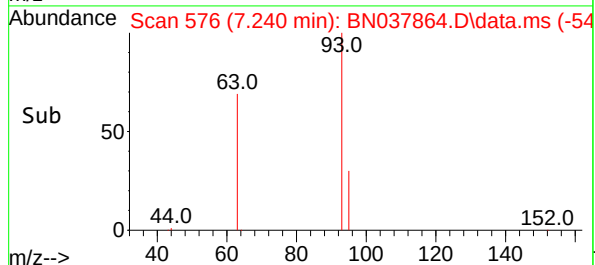
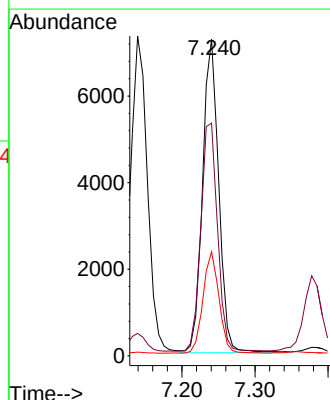
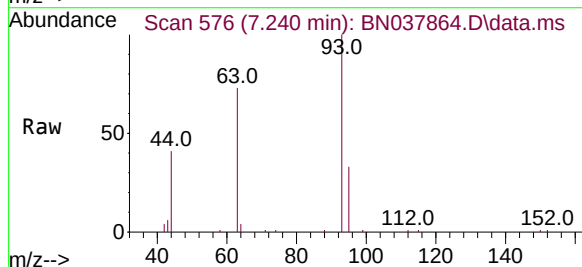
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

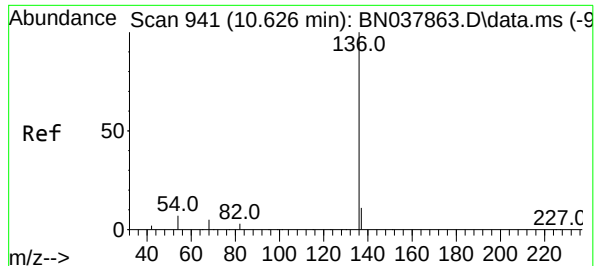
Tgt Ion:	99	Resp:	11319
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:	93	Resp:	11096
Ion	Ratio	Lower	Upper
93	100		
63	75.5	60.1	90.1
95	32.2	25.4	38.2

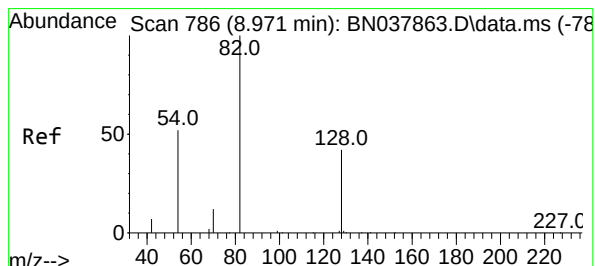
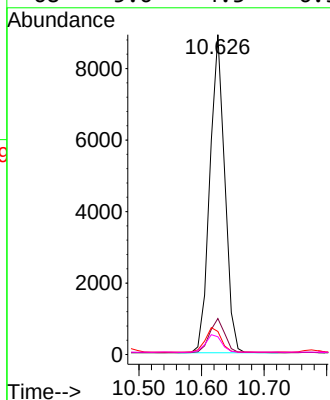
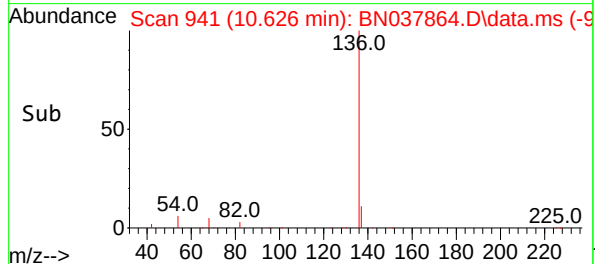
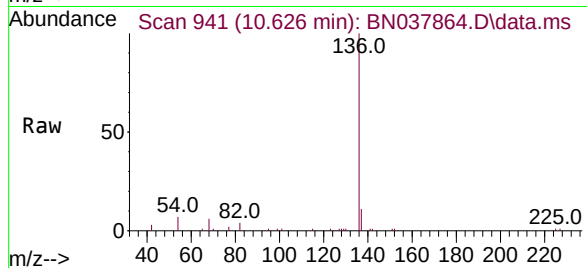




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

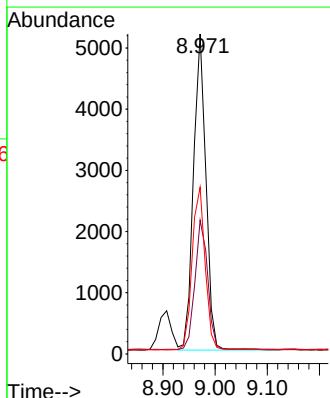
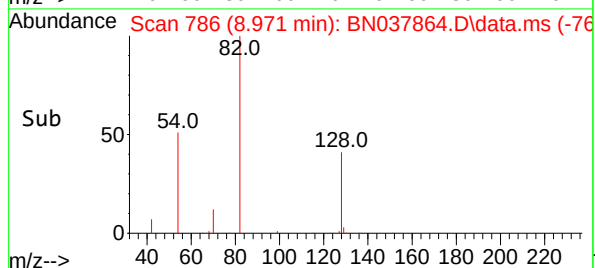
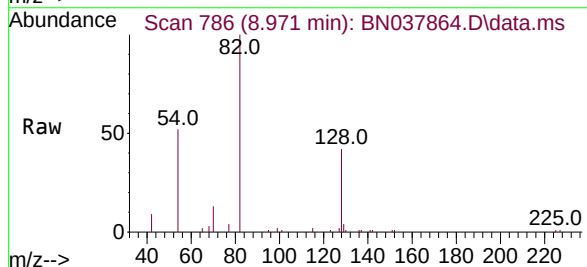
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

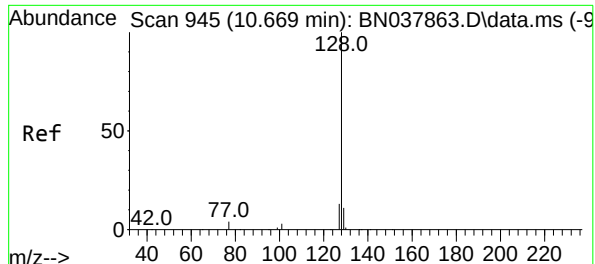
Tgt Ion:	136	Resp:	14715
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:	82	Resp:	8536
Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.8	52.2
54	52.1	42.2	63.2

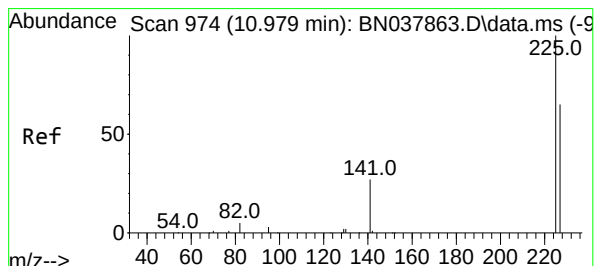
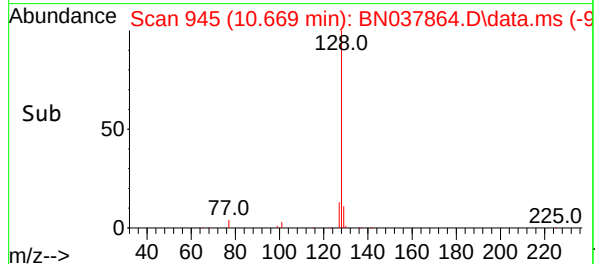
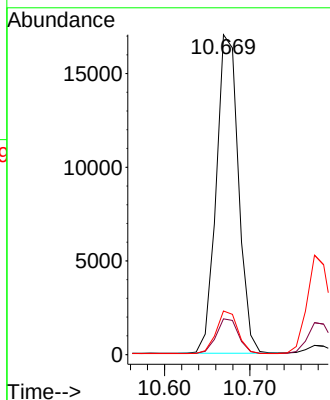
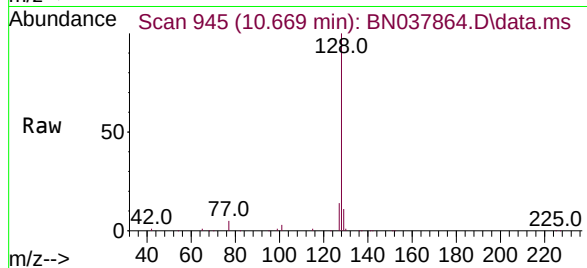




#9
Naphthalene
Concen: 0.763 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

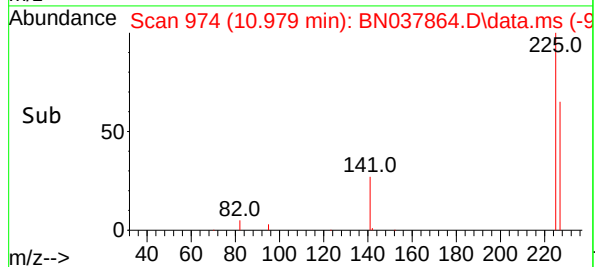
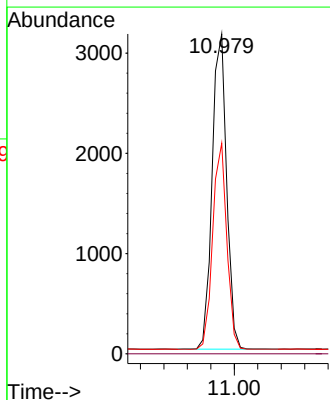
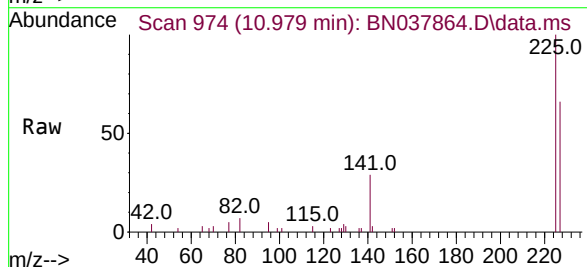
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

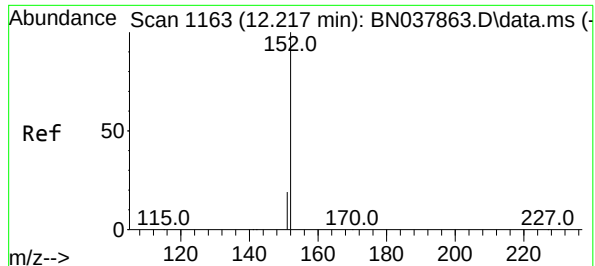
Tgt Ion:128 Resp: 30935
Ion Ratio Lower Upper
128 100
129 11.2 9.2 13.8
127 13.6 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.780 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:225 Resp: 5393
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.4 77.2

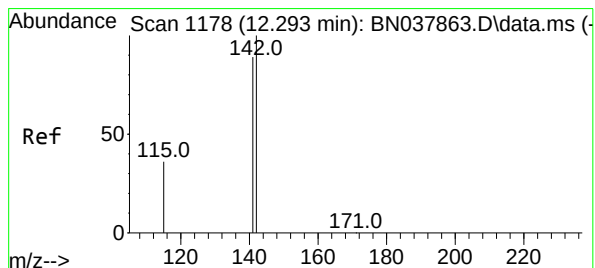
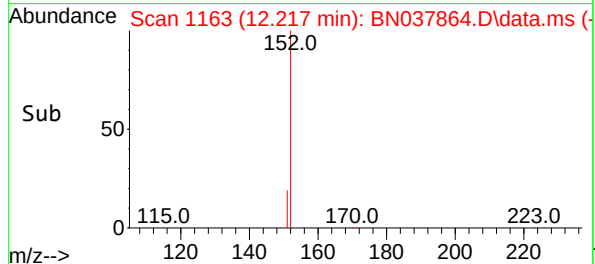
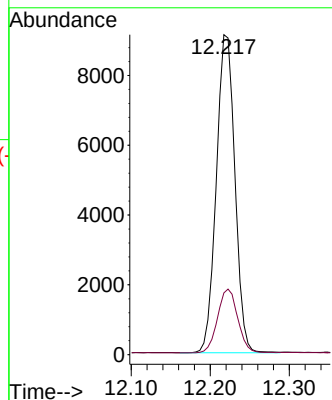
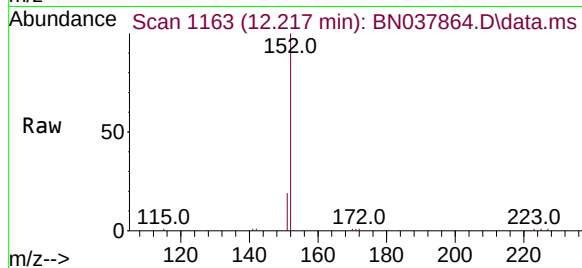




#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

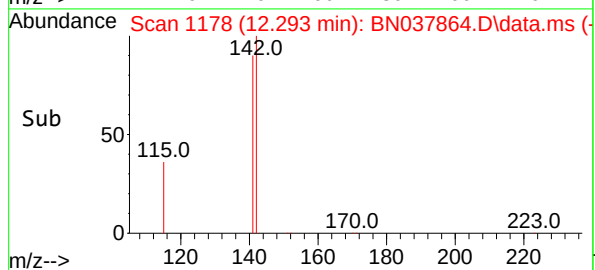
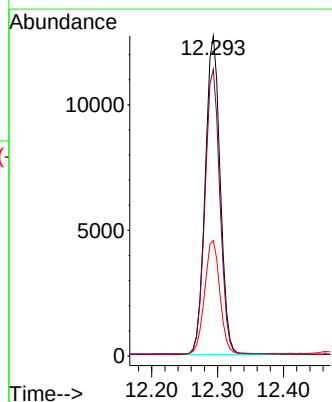
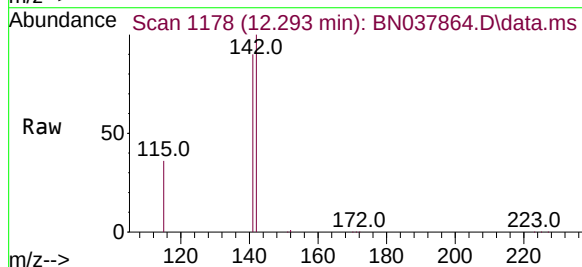
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

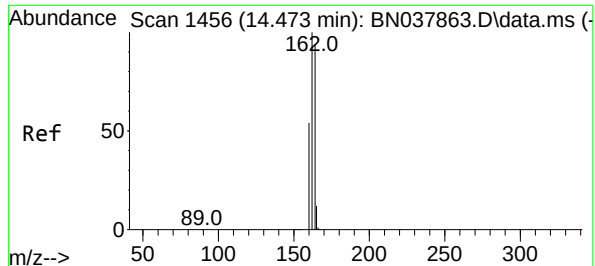
Tgt Ion:152 Resp: 14822
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.758 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:142 Resp: 20065
Ion Ratio Lower Upper
142 100
141 89.5 71.2 106.8
115 36.0 29.7 44.5

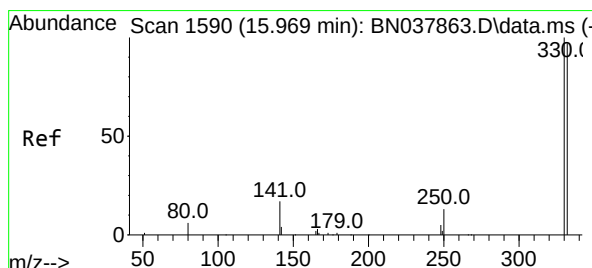
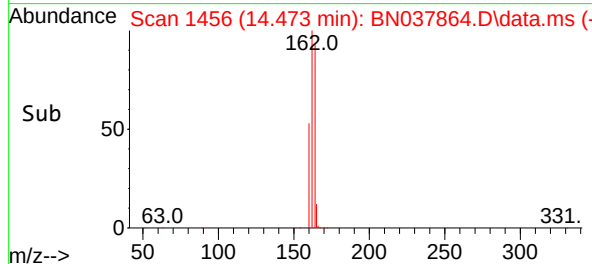
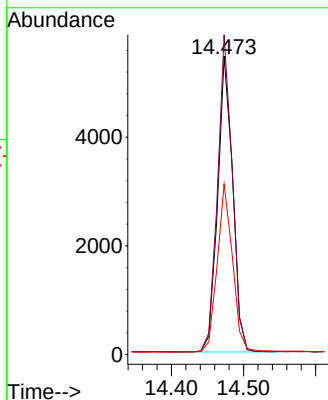
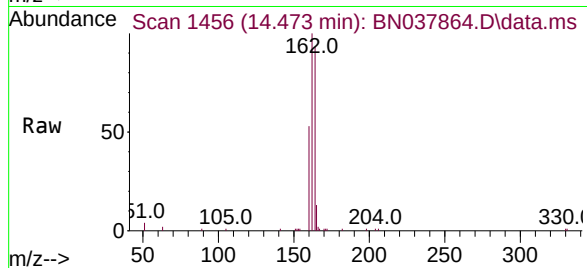




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

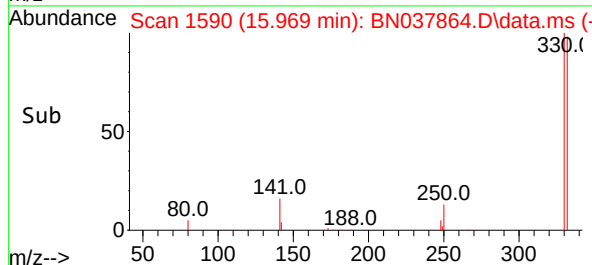
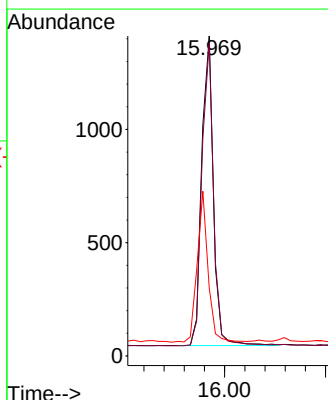
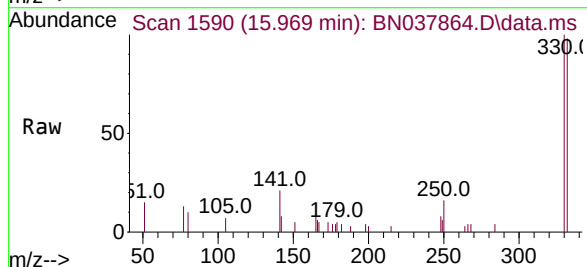
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

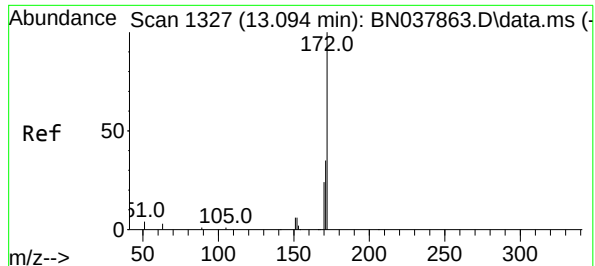
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.8	127.2
160	57.1	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.687 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.2	115.8
141	45.1	37.2	55.8

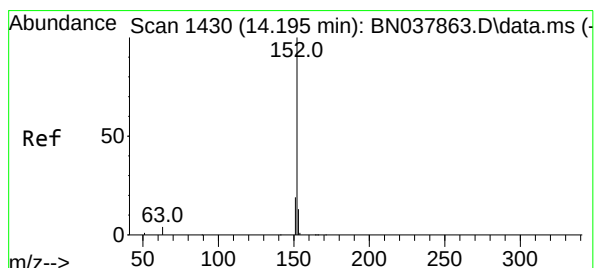
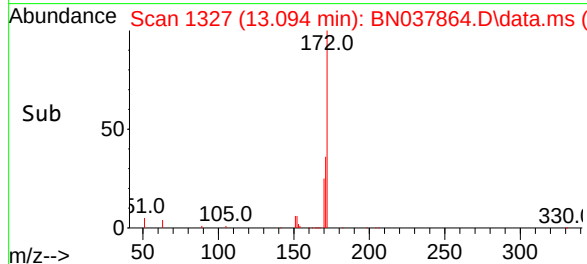
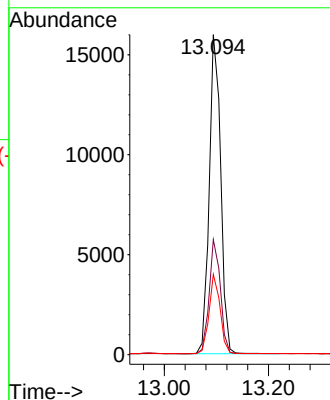
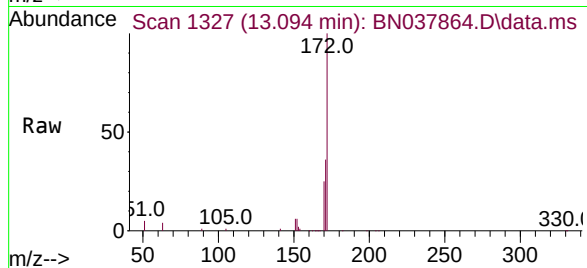




#15
2-Fluorobiphenyl
Concen: 0.756 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

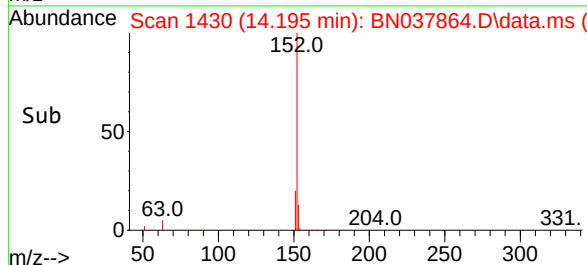
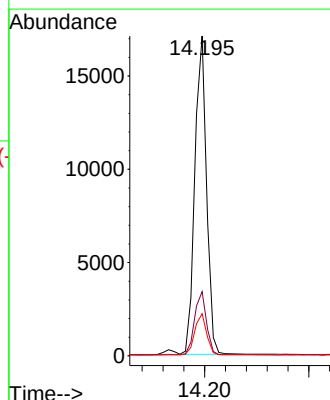
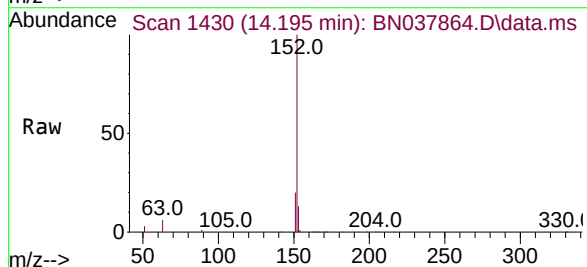
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

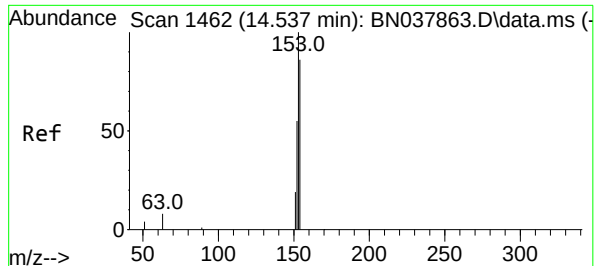
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.1	19.7	29.5



#16
Acenaphthylene
Concen: 0.740 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.9	10.5	15.7

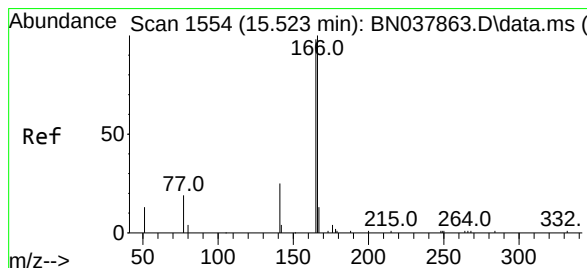
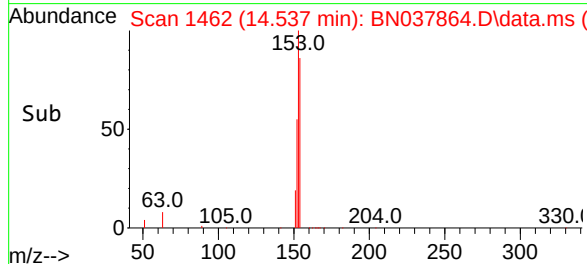
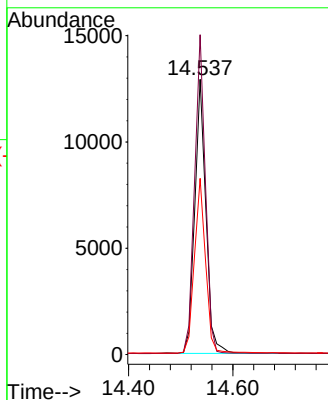
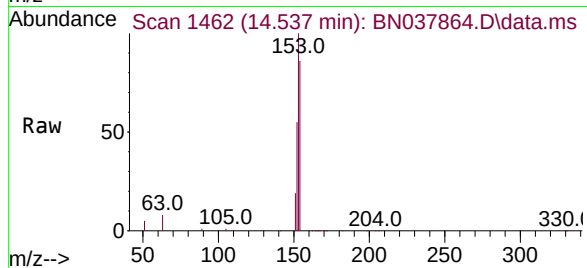




#17
Acenaphthene
Concen: 0.747 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

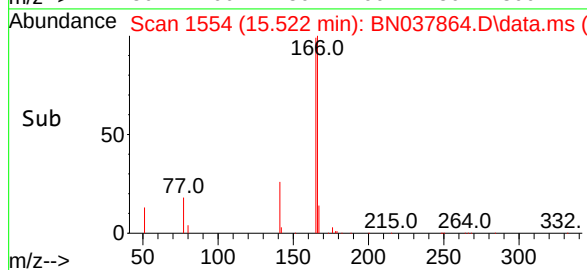
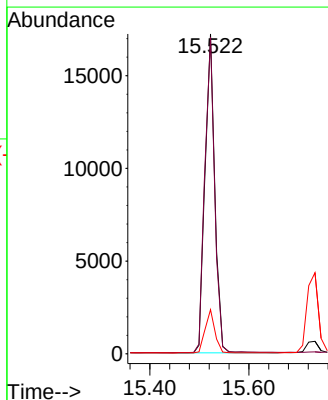
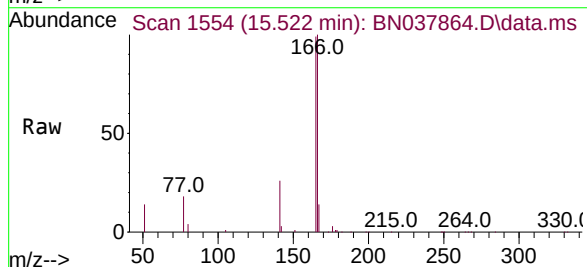
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

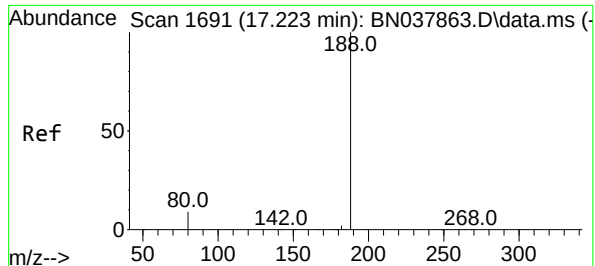
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.9	90.5	135.7
152	64.2	51.8	77.8



#18
Fluorene
Concen: 0.749 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.0	118.4
167	13.4	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

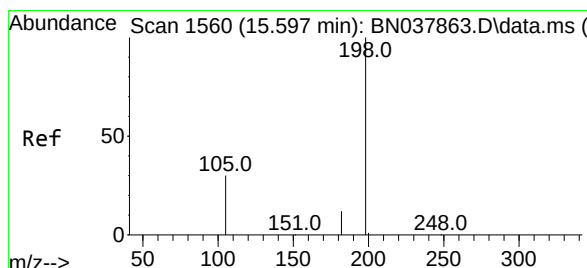
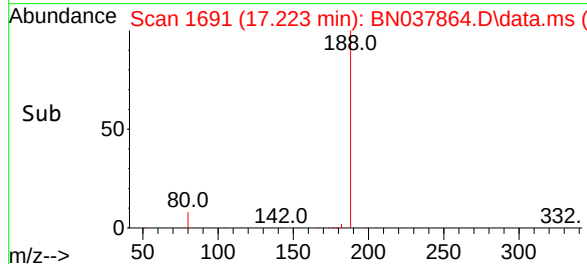
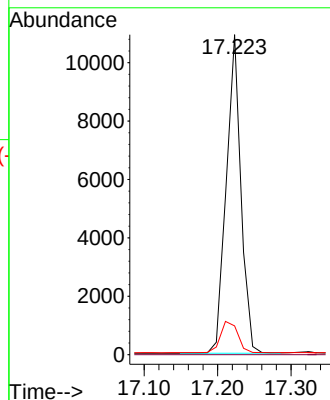
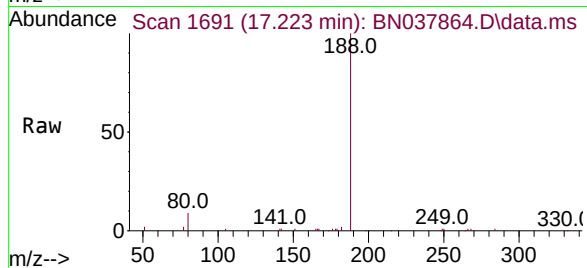
Tgt Ion:188 Resp: 15207

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.755 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

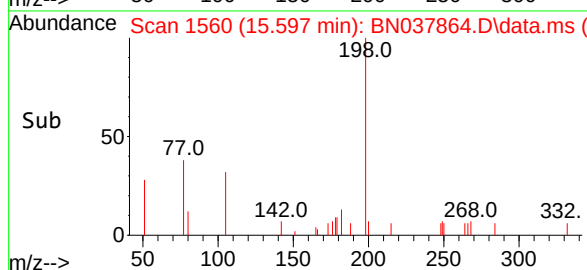
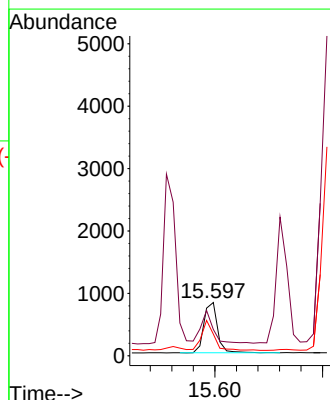
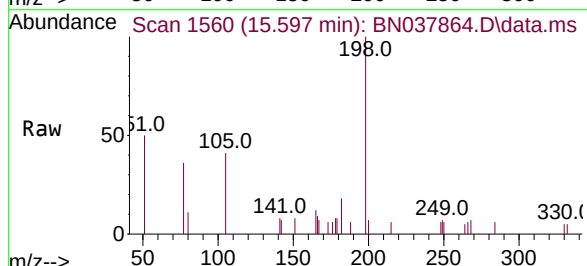
Tgt Ion:198 Resp: 1414

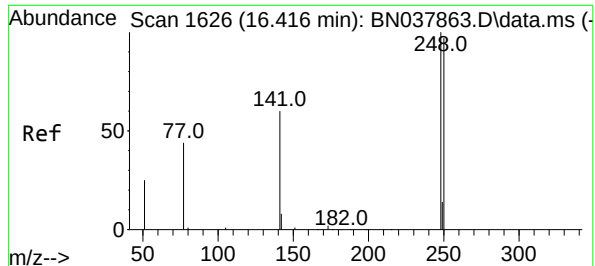
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

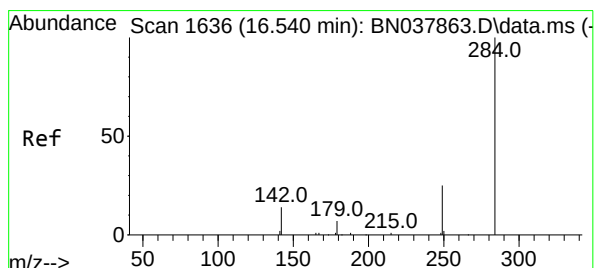
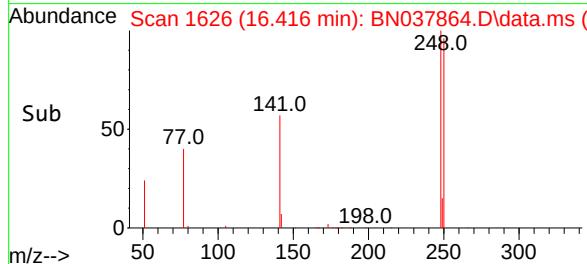
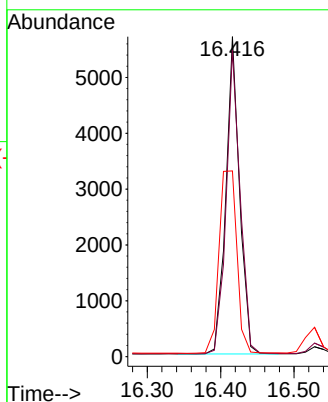
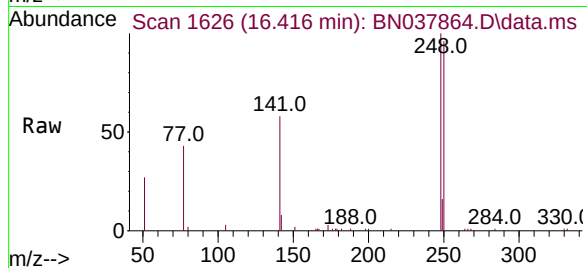




#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

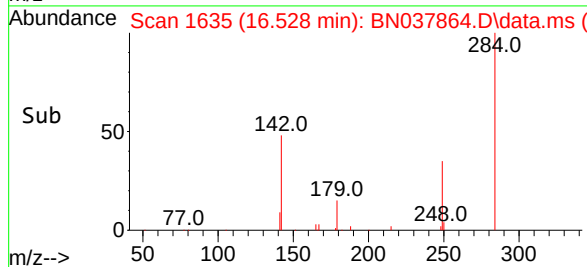
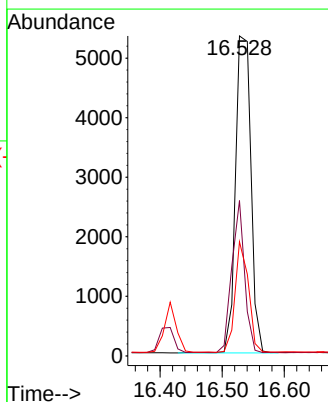
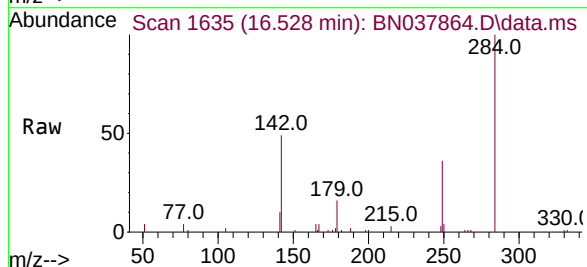
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

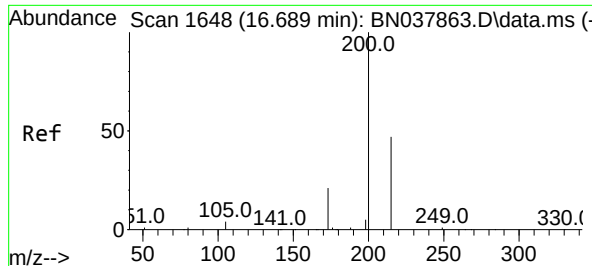
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.761 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.7	30.9	46.3
249	30.2	23.9	35.9





#23

Atrazine

Concen: 0.716 ng

RT: 16.677 min Scan# 1647

Delta R.T. -0.012 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

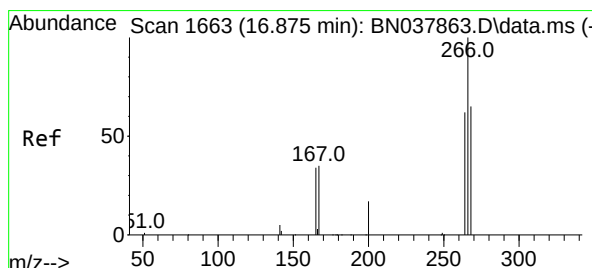
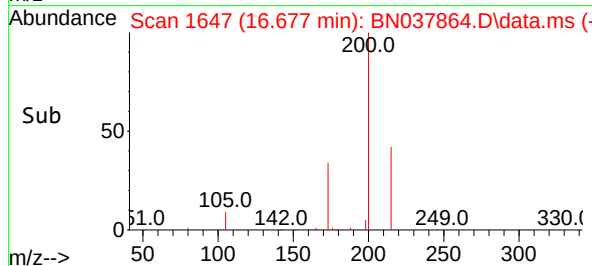
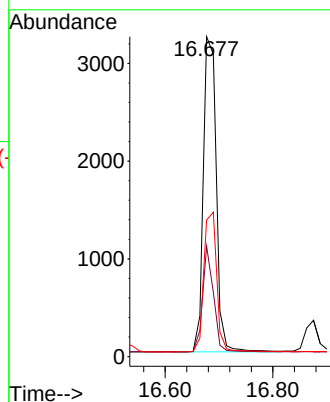
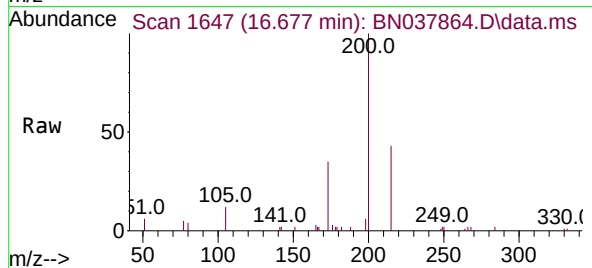
Tgt Ion:200 Resp: 5405

Ion Ratio Lower Upper

200 100

173 34.5 18.3 27.5#

215 42.7 38.6 58.0



#24

Pentachlorophenol

Concen: 0.714 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

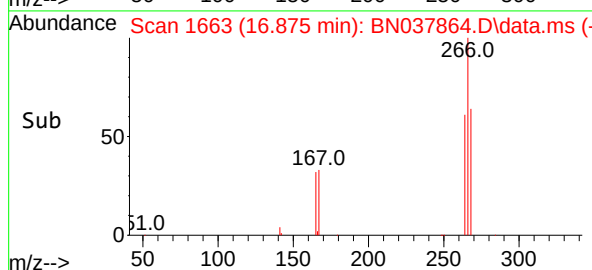
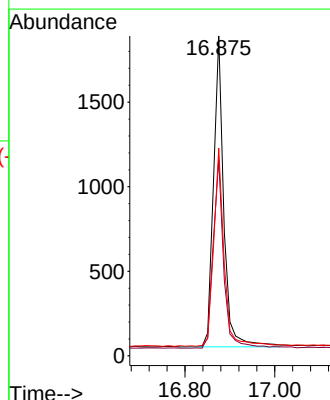
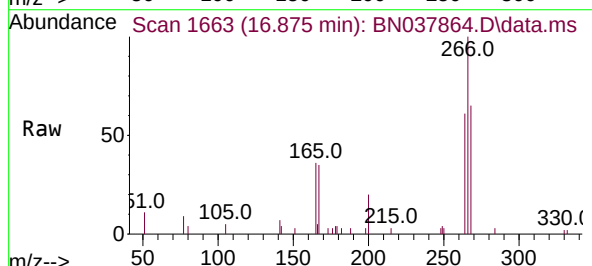
Tgt Ion:266 Resp: 2945

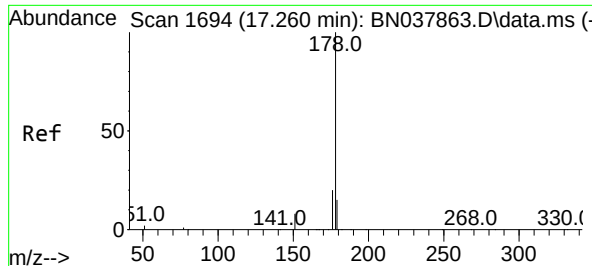
Ion Ratio Lower Upper

266 100

264 62.0 50.9 76.3

268 64.2 54.3 81.5





#25

Phenanthrene

Concen: 0.744 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

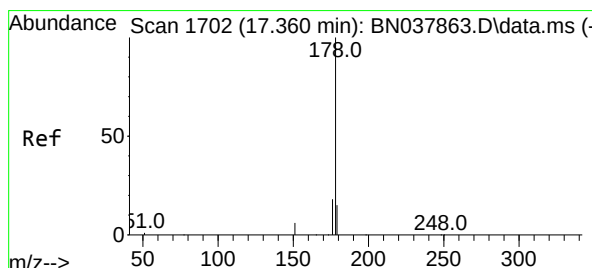
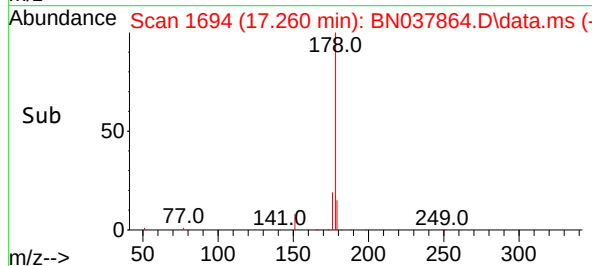
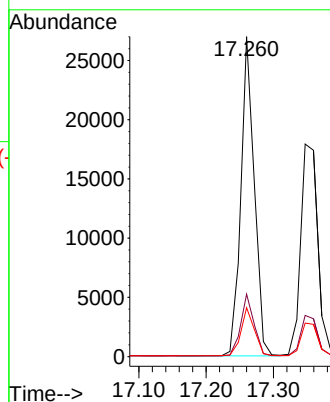
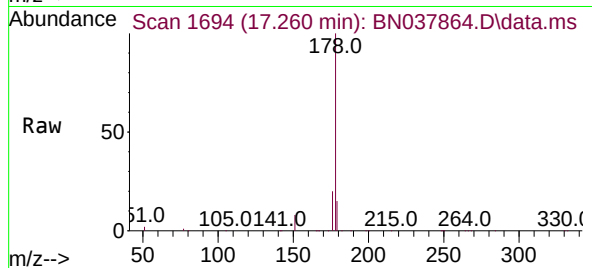
Tgt Ion:178 Resp: 37218

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 0.740 ng

RT: 17.347 min Scan# 1701

Delta R.T. -0.012 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

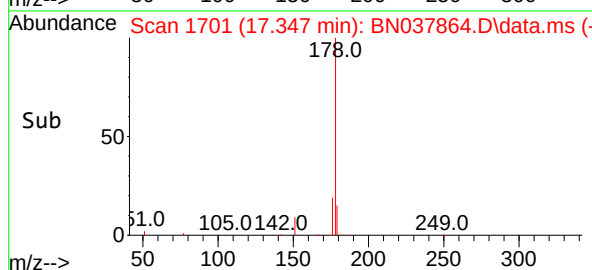
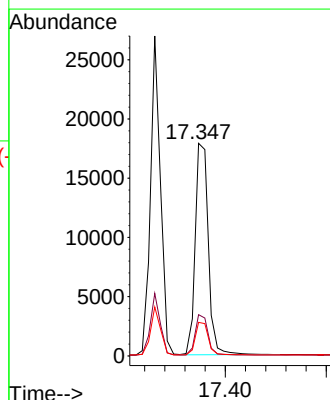
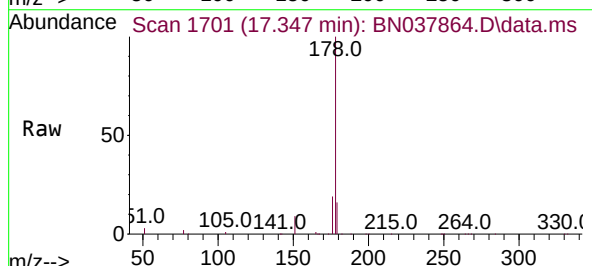
Tgt Ion:178 Resp: 32138

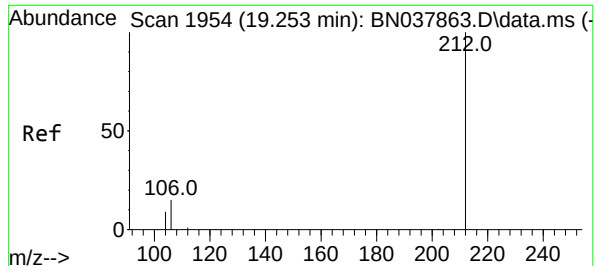
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.715 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

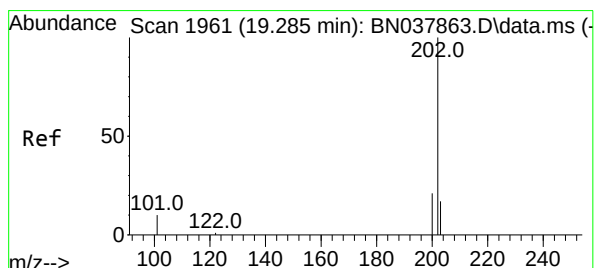
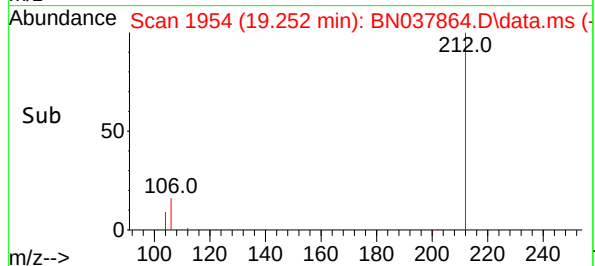
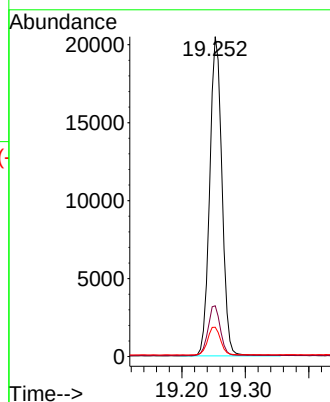
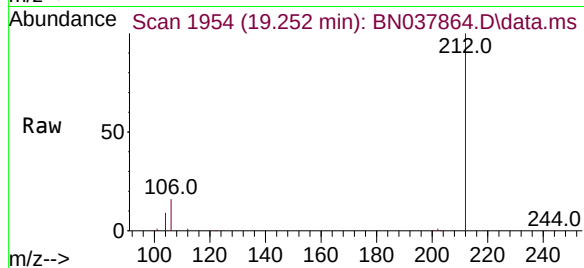
Tgt Ion:212 Resp: 27365

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.749 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

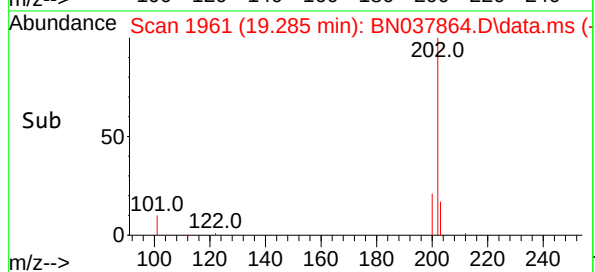
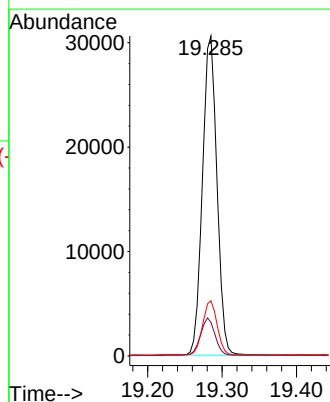
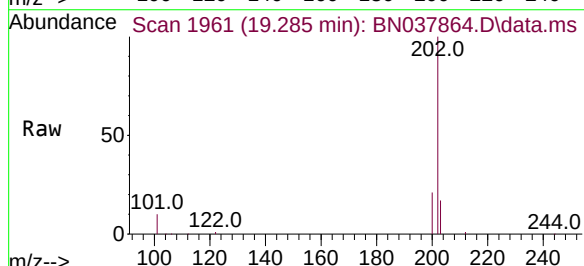
Tgt Ion:202 Resp: 41292

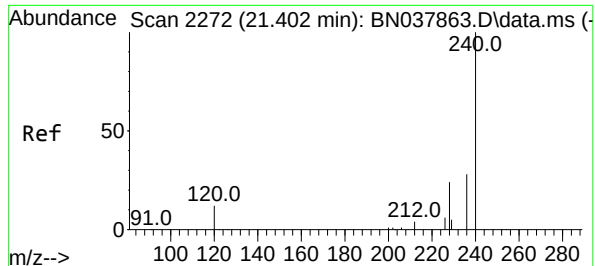
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

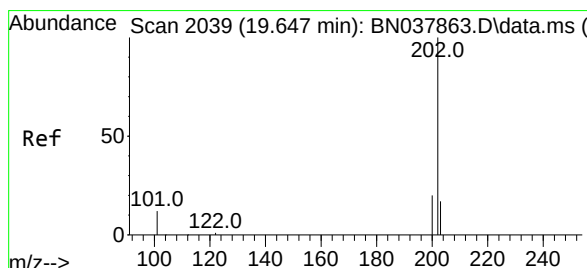
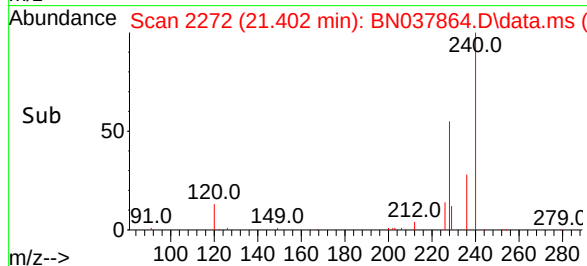
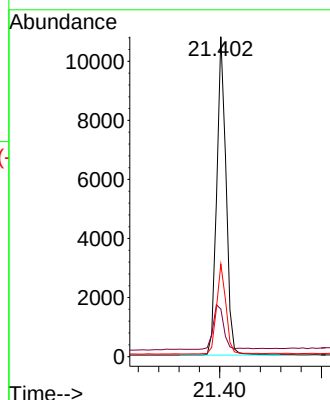
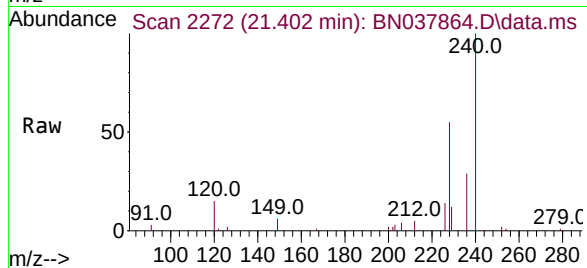
Tgt Ion:240 Resp: 13674

Ion Ratio Lower Upper

240 100

120 14.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.748 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

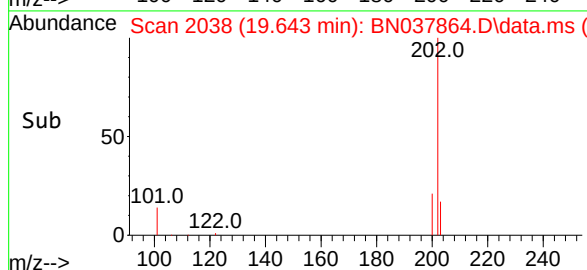
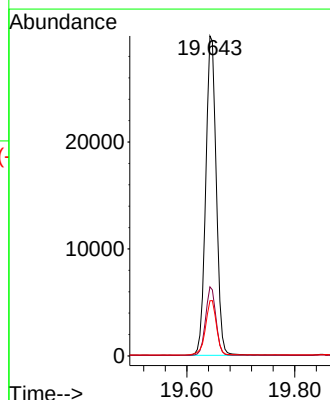
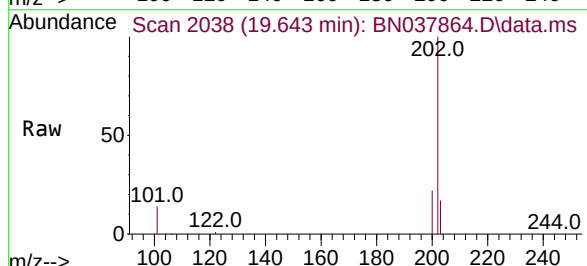
Tgt Ion:202 Resp: 40377

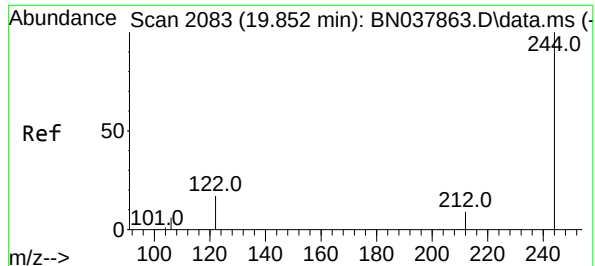
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.4

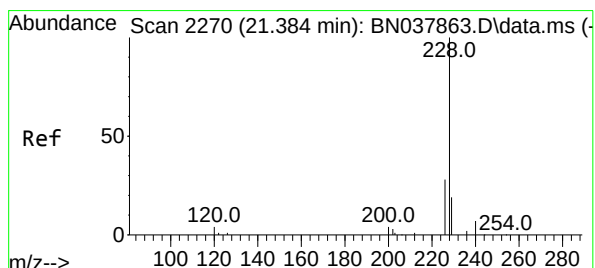
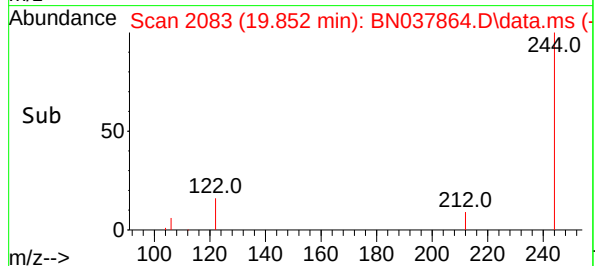
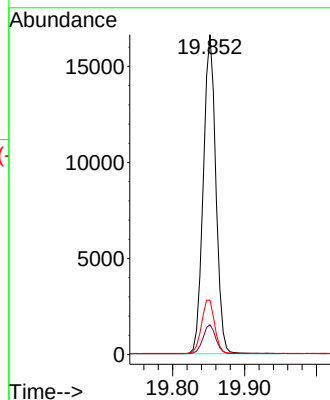
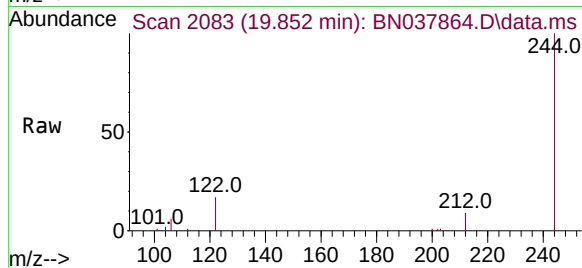




#31
Terphenyl-d14
Concen: 0.738 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

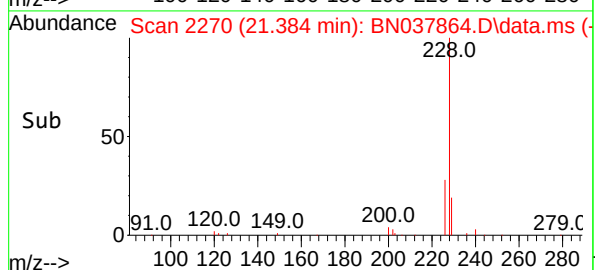
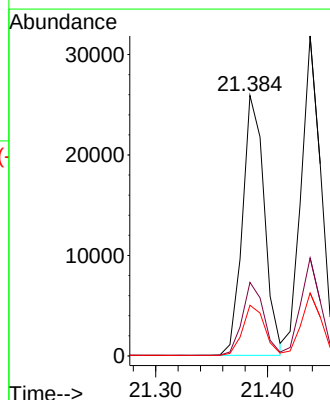
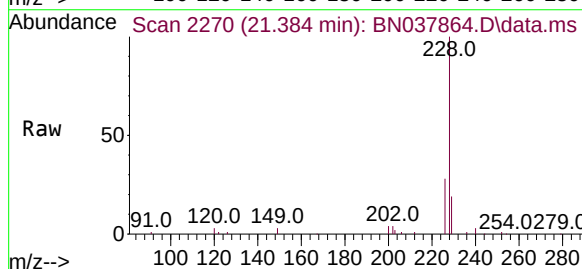
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

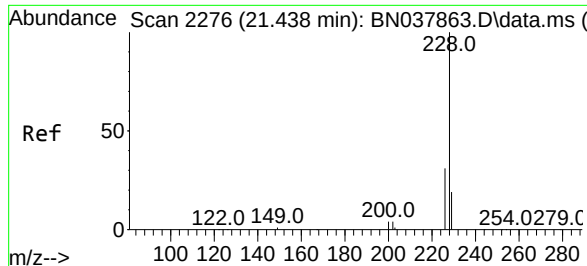
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	17.0	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.735 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	19.5	15.6	23.4





#33

Chrysene

Concen: 0.765 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

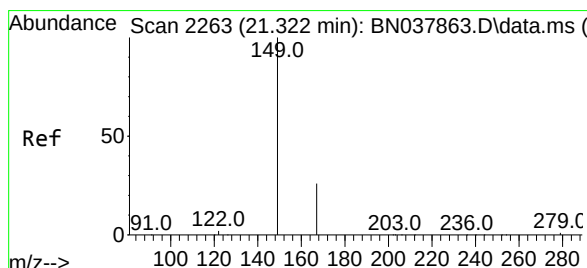
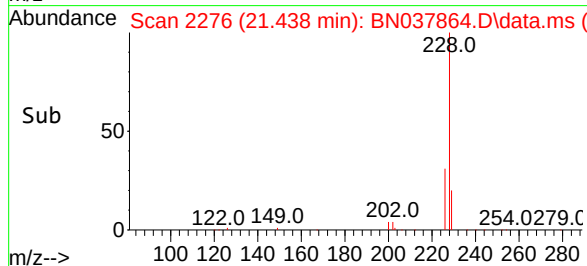
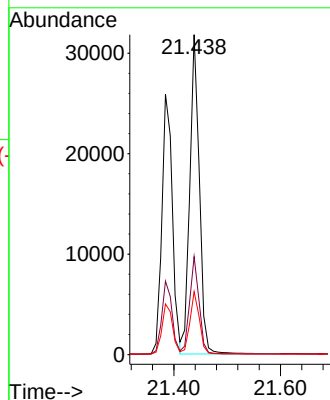
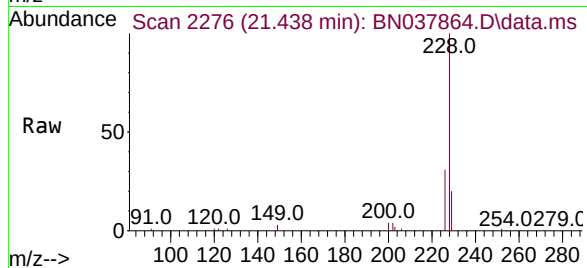
Tgt Ion:228 Resp: 39541

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.689 ng

RT: 21.322 min Scan# 2263

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

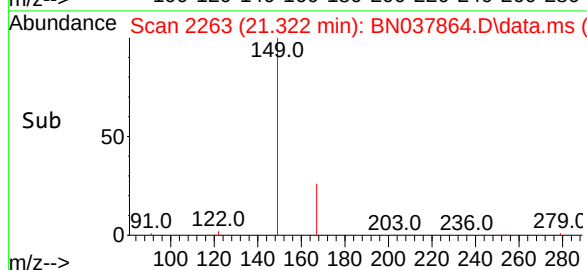
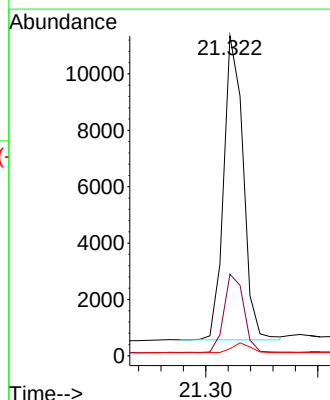
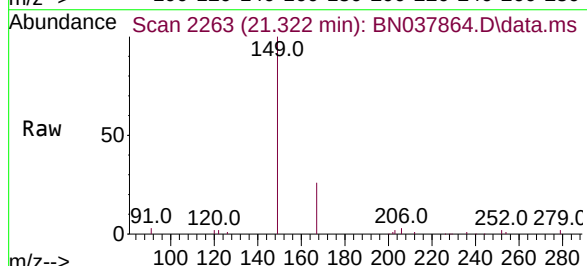
Tgt Ion:149 Resp: 13026

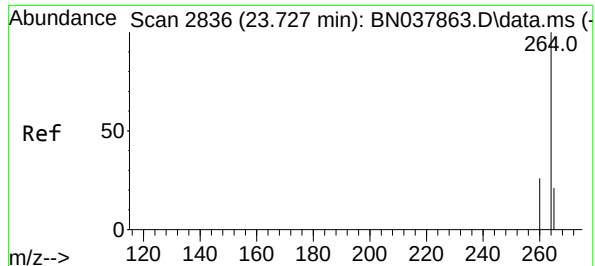
Ion Ratio Lower Upper

149 100

167 26.1 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037864.D

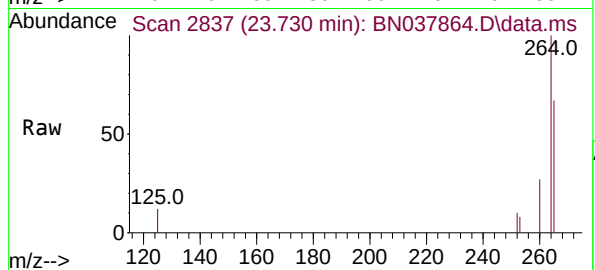
Acq: 23 Sep 2025 14:02

Instrument :

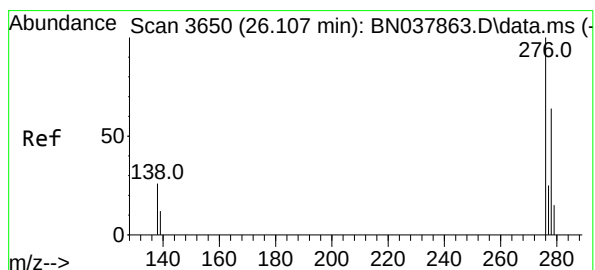
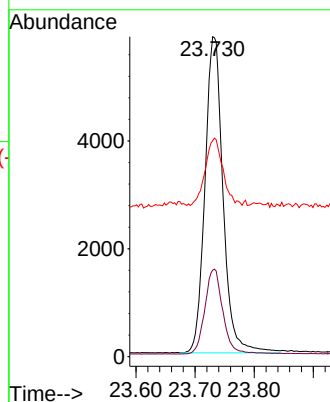
BNA_N

ClientSampleId :

SSTDIC0.8



Tgt Ion:	264	Resp:	12464
Ion Ratio	Lower	Upper	
264	100		
260	27.0	21.5	32.3
265	67.5	53.8	80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.747 ng

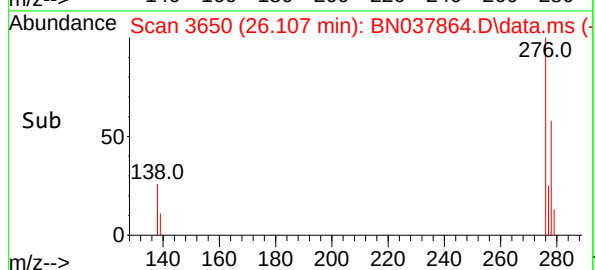
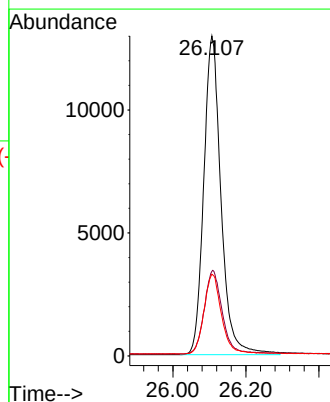
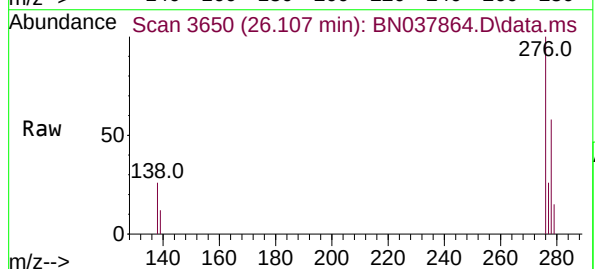
RT: 26.107 min Scan# 3650

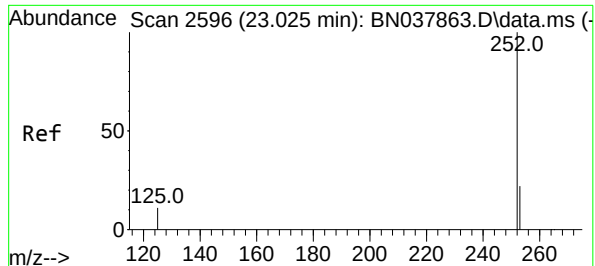
Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Tgt Ion:	276	Resp:	42560
Ion Ratio	Lower	Upper	
276	100		
138	26.8	21.4	32.0
277	25.3	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 0.738 ng

RT: 23.025 min Scan# 2596

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

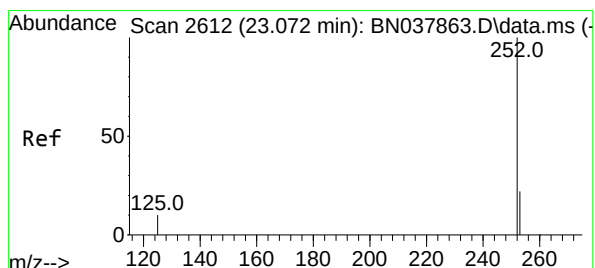
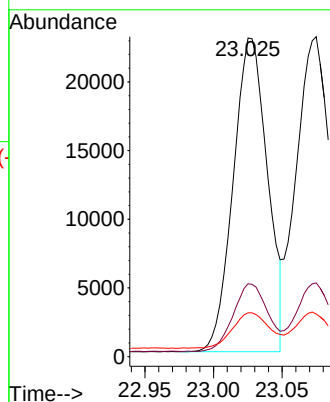
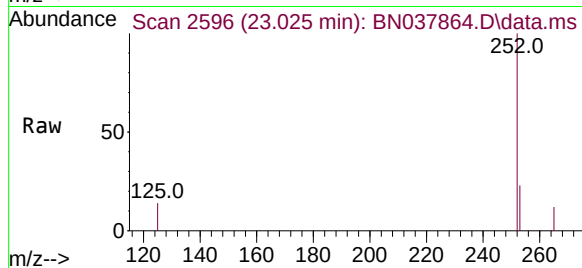
Tgt Ion:252 Resp: 39646

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

125 13.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.750 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

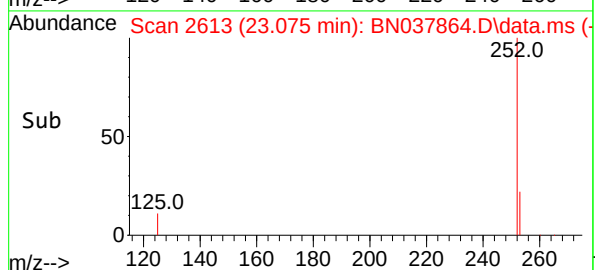
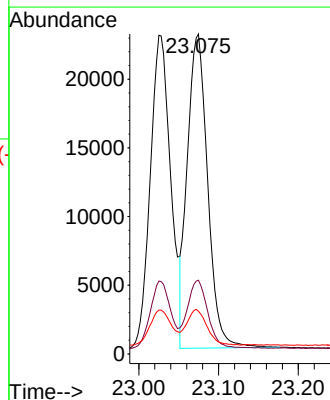
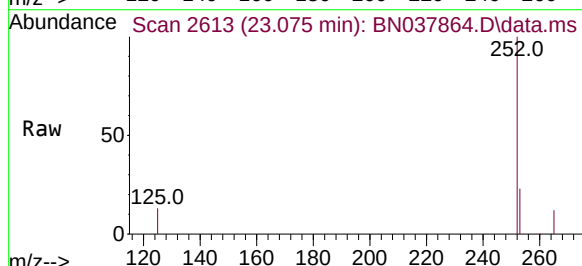
Tgt Ion:252 Resp: 40574

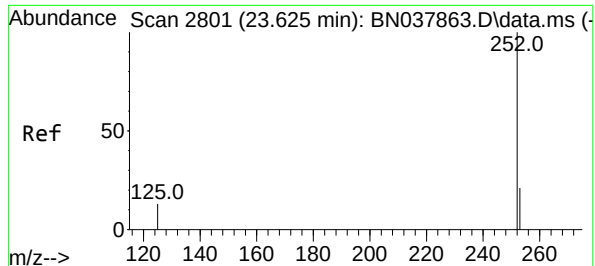
Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.735 ng

RT: 23.627 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

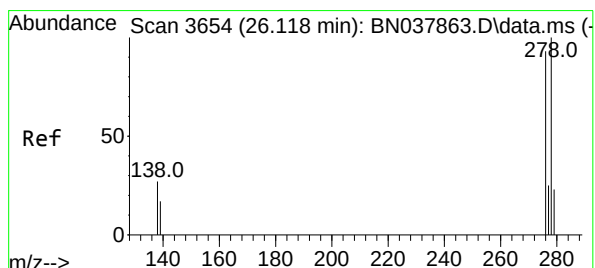
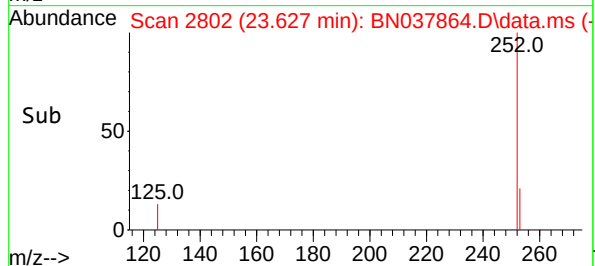
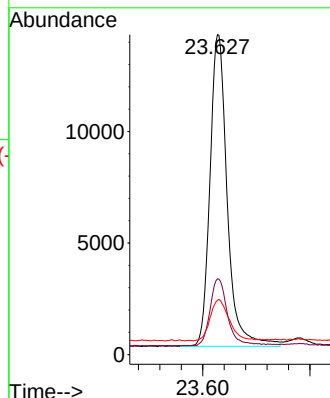
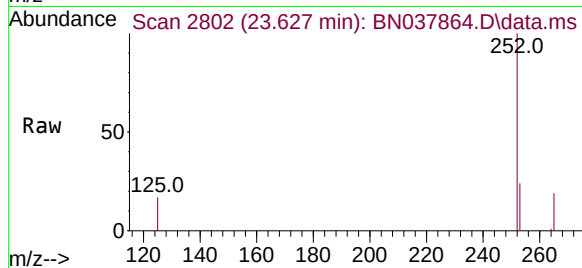
Tgt Ion:252 Resp: 31265

Ion Ratio Lower Upper

252 100

253 23.7 20.6 30.8

125 16.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.747 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

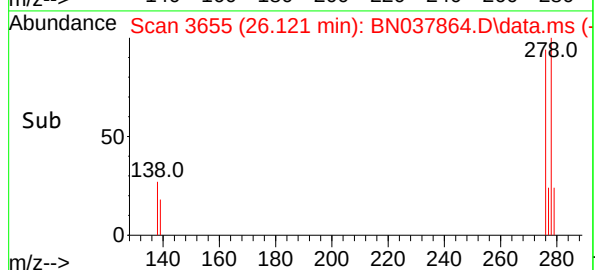
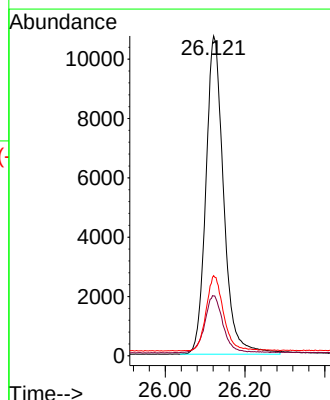
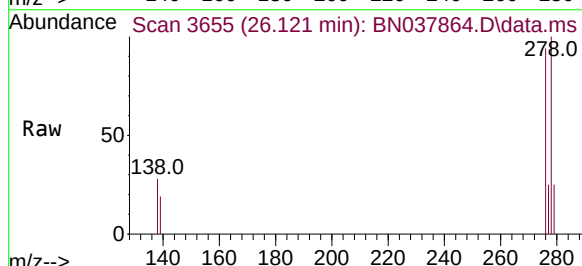
Tgt Ion:278 Resp: 33235

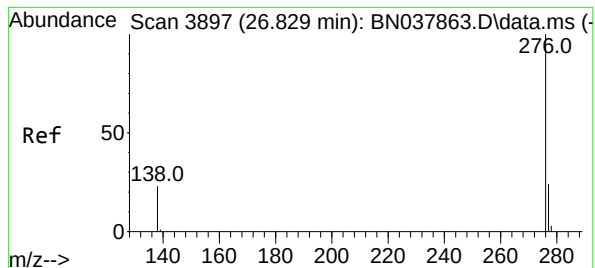
Ion Ratio Lower Upper

278 100

139 18.7 15.4 23.2

279 25.1 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.745 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037864.D

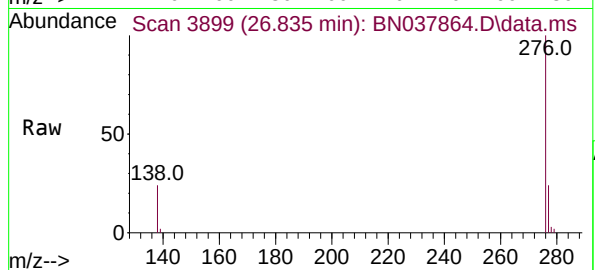
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



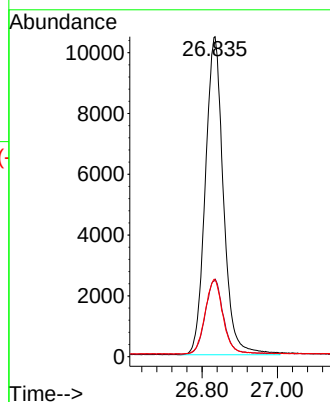
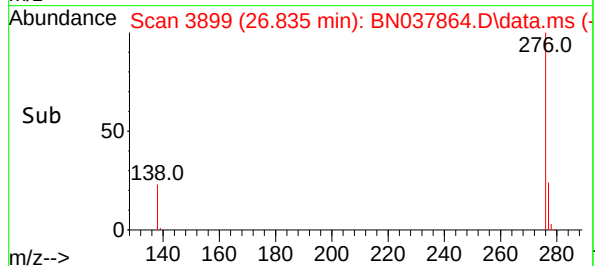
Tgt Ion:276 Resp: 34817

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 23.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037865.D
 Acq On : 23 Sep 2025 14:38
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

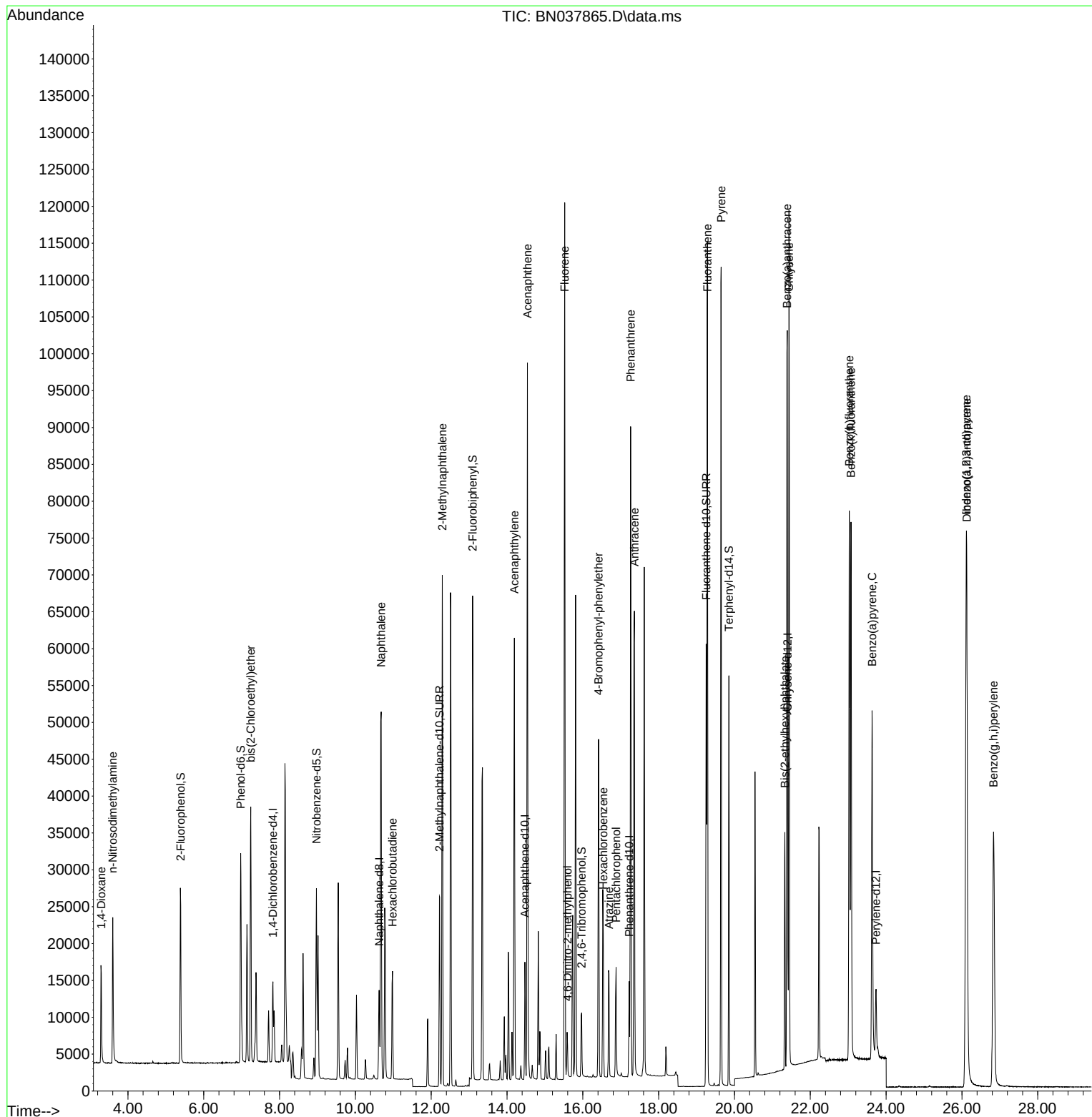
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng	0.00
29) Chrysene-d12	21.402	240	14963	0.400	ng	0.00
35) Perylene-d12	23.735	264	12917	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	19493	1.592	ng	0.00
5) Phenol-d6	6.973	99	26005	1.616	ng	0.00
8) Nitrobenzene-d5	8.971	82	19230	1.627	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	34256	1.592	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	5471	1.613	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	55598	1.616	ng	0.00
27) Fluoranthene-d10	19.252	212	63771	1.597	ng	0.00
31) Terphenyl-d14	19.852	244	47765	1.603	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	9123	1.674	ng	98
3) n-Nitrosodimethylamine	3.600	42	12048	1.662	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	24687	1.653	ng	100
9) Naphthalene	10.679	128	69620	1.631	ng	98
10) Hexachlorobutadiene	10.978	225	11899	1.634	ng	# 100
12) 2-Methylnaphthalene	12.293	142	46704	1.675	ng	99
16) Acenaphthylene	14.195	152	64093	1.680	ng	100
17) Acenaphthene	14.537	154	45411	1.670	ng	97
18) Fluorene	15.522	166	55922	1.701	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	3669	1.602	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	17278	1.670	ng	98
22) Hexachlorobenzene	16.540	284	20548	1.638	ng	99
23) Atrazine	16.689	200	13043	1.656	ng	97
24) Pentachlorophenol	16.875	266	7393	1.718	ng	98
25) Phenanthrene	17.260	178	86207	1.650	ng	99
26) Anthracene	17.359	178	76744	1.693	ng	100
28) Fluoranthene	19.285	202	98772	1.717	ng	99
30) Pyrene	19.647	202	96189	1.628	ng	100
32) Benzo(a)anthracene	21.384	228	85145	1.628	ng	99
33) Chrysene	21.438	228	93309	1.650	ng	100
34) Bis(2-ethylhexyl)phtha...	21.330	149	31032	1.500	ng	98
36) Indeno(1,2,3-cd)pyrene	26.112	276	97476	1.652	ng	99
37) Benzo(b)fluoranthene	23.028	252	93525	1.679	ng	# 94
38) Benzo(k)fluoranthene	23.075	252	96868	1.728	ng	# 94
39) Benzo(a)pyrene	23.630	252	73009	1.657	ng	# 90
40) Dibenzo(a,h)anthracene	26.127	278	77237	1.676	ng	97
41) Benzo(g,h,i)perylene	26.835	276	78576	1.623	ng	98

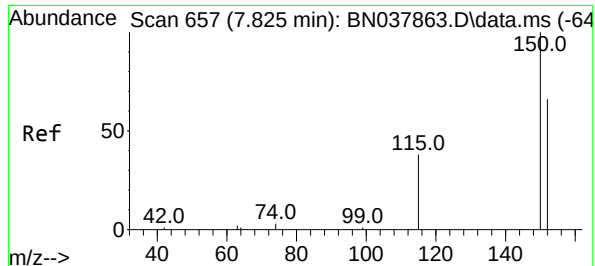
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

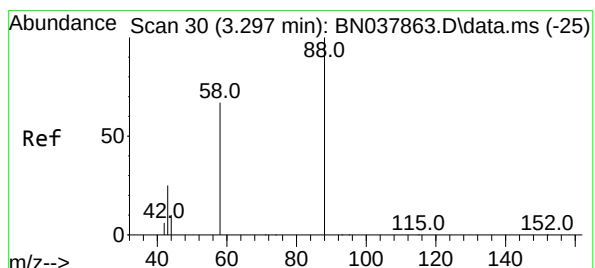
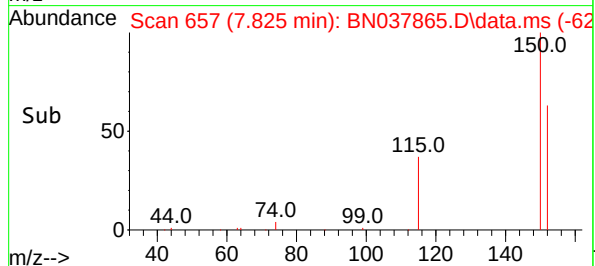
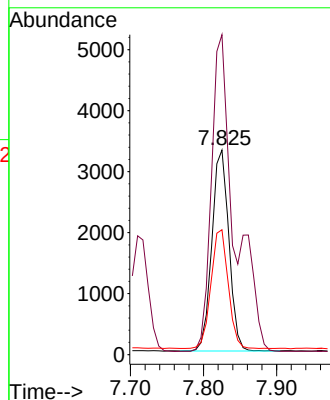
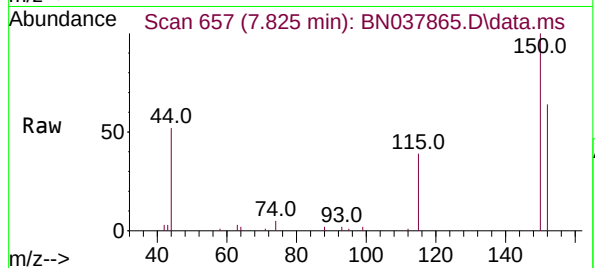




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

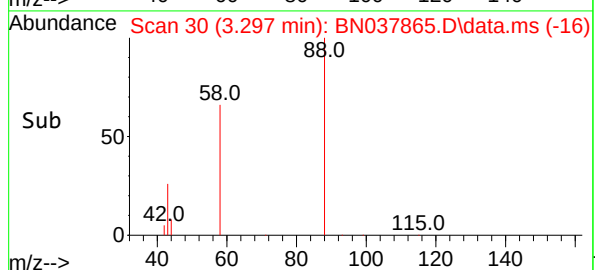
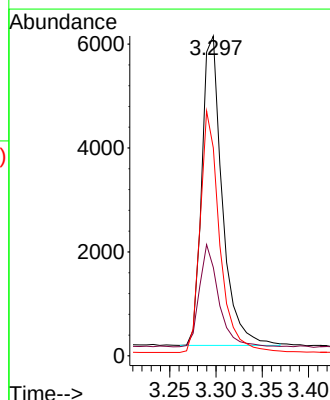
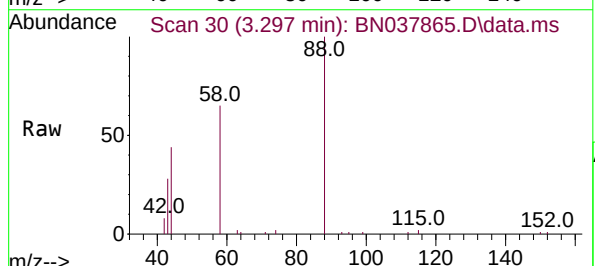
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

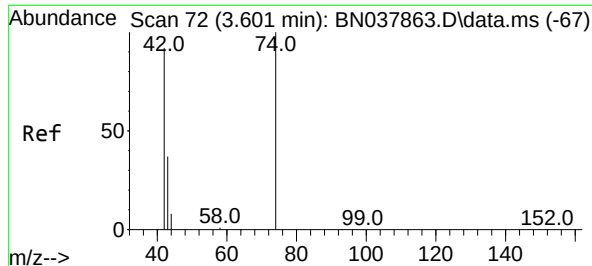
Tgt Ion:152 Resp: 5367
Ion Ratio Lower Upper
152 100
150 156.4 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 1.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123
Ion Ratio Lower Upper
88 100
43 31.3 26.6 39.8
58 74.6 58.9 88.3

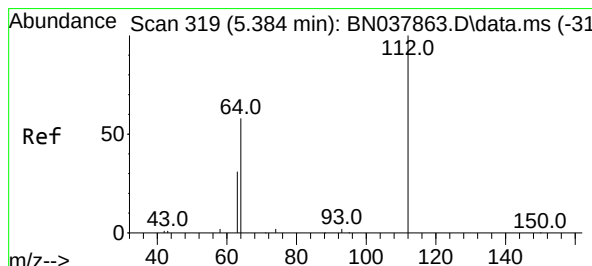
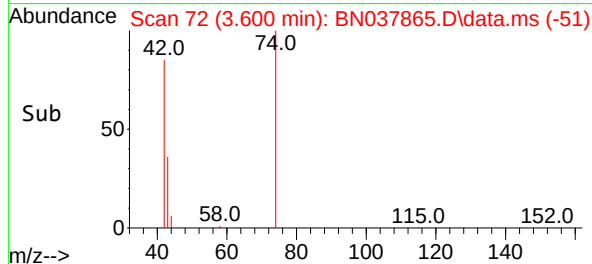
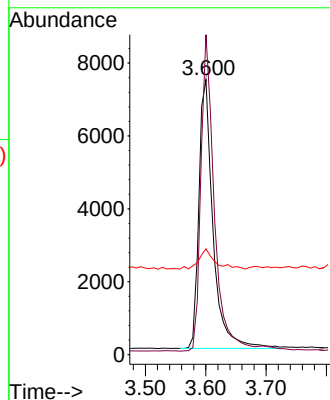
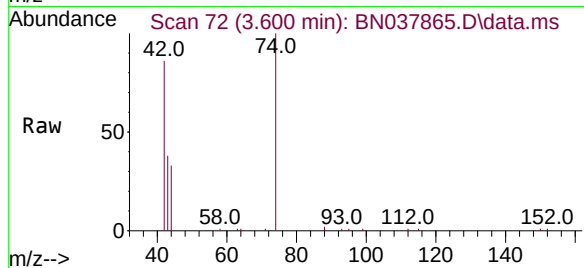




#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

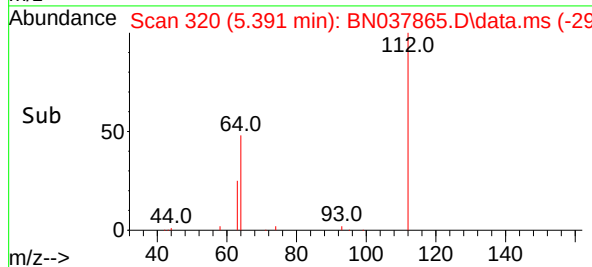
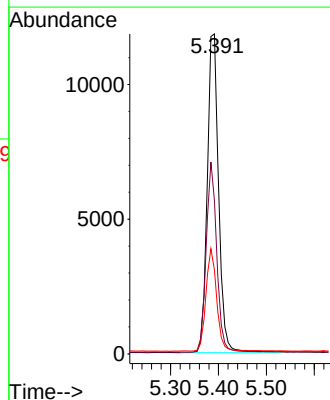
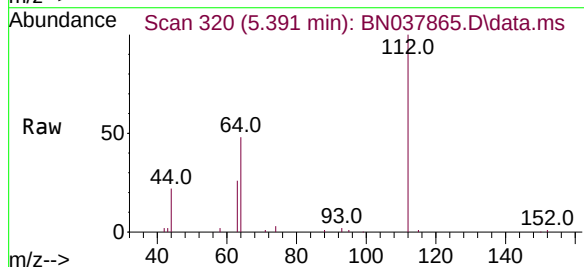
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

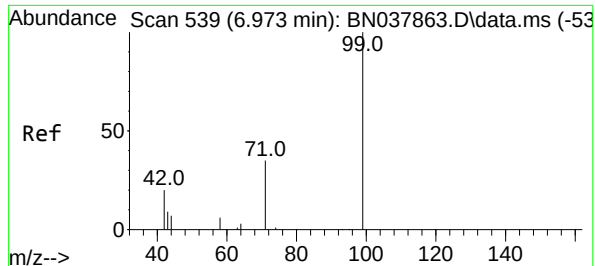
Tgt Ion: 42 Resp: 12048
Ion Ratio Lower Upper
42 100
74 110.9 93.4 140.0
44 8.4 22.2 33.4#



#4
2-Fluorophenol
Concen: 1.592 ng
RT: 5.391 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 112 Resp: 19493
Ion Ratio Lower Upper
112 100
64 55.9 44.6 66.8
63 30.3 24.9 37.3

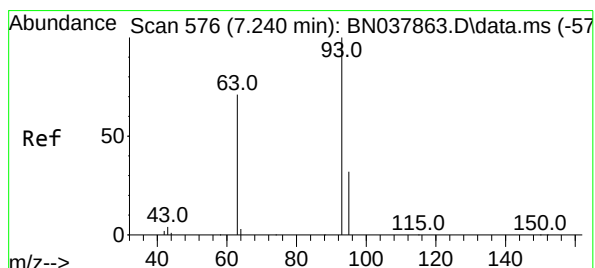
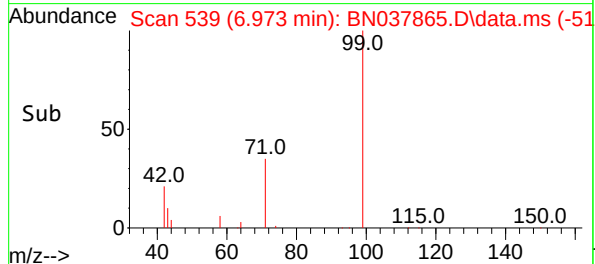
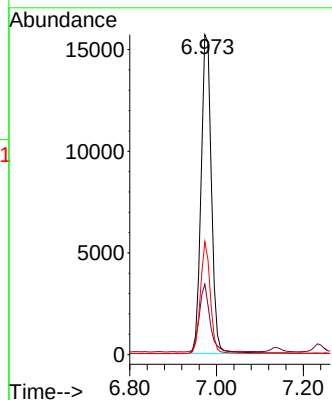
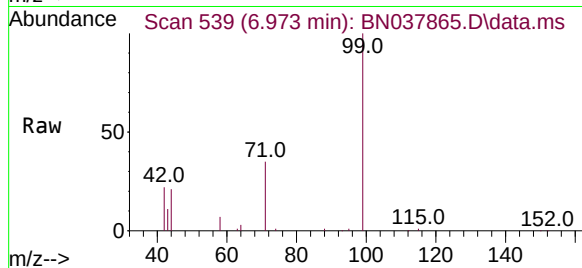




#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

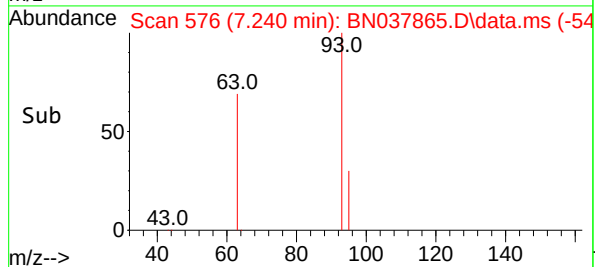
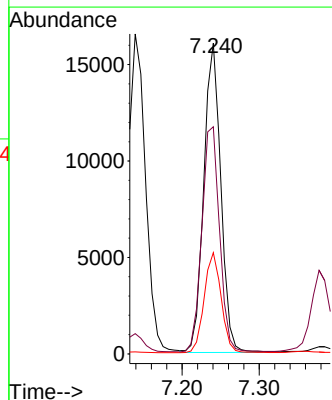
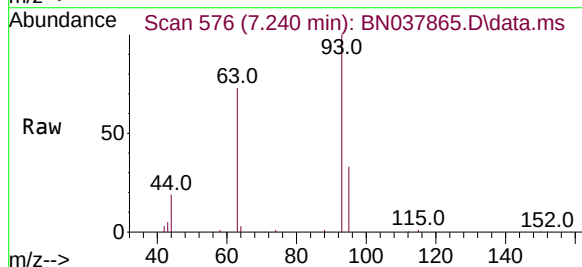
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

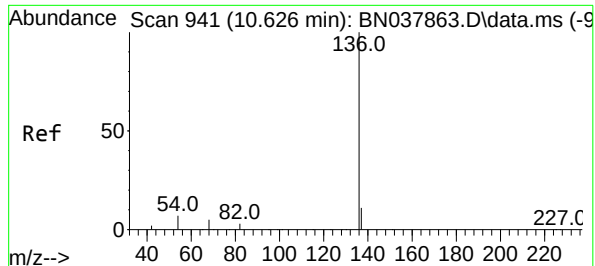
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 1.653 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.1	90.1
95	32.1	25.4	38.2

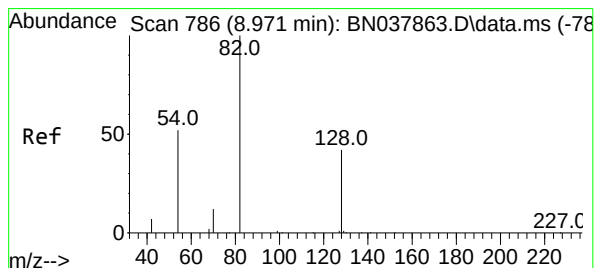
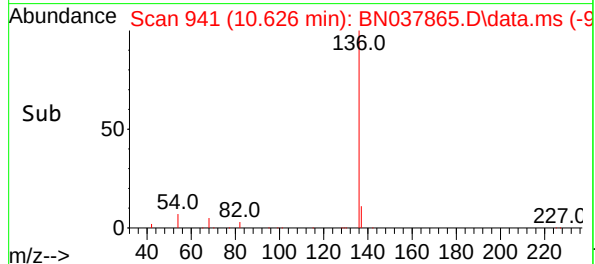
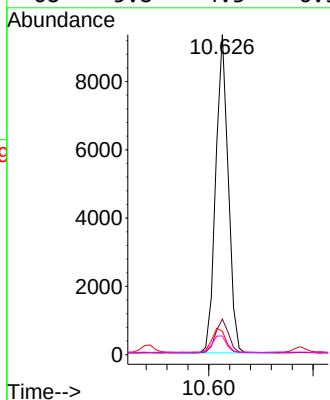
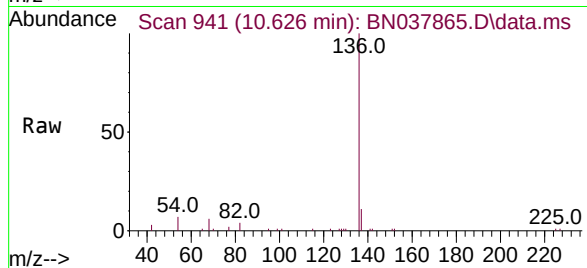




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

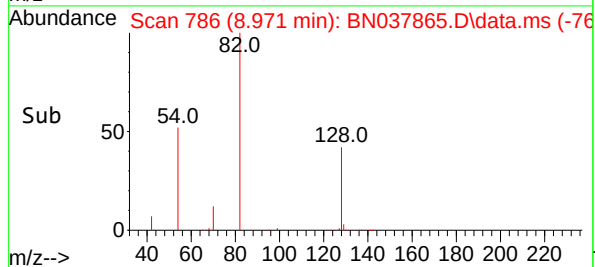
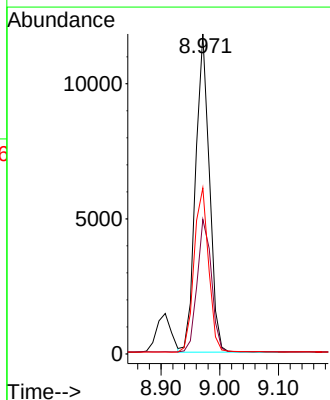
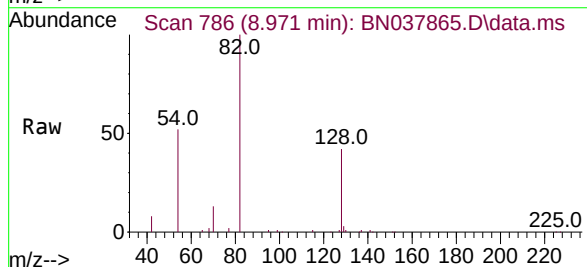
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

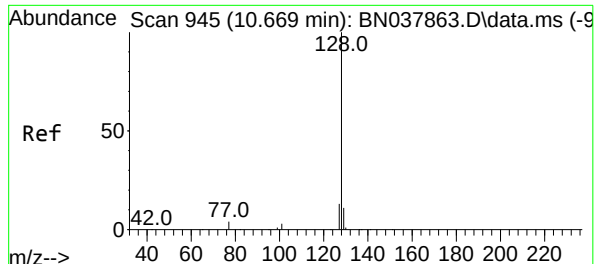
Tgt Ion:	136	Resp:	15494
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 1.627 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:	82	Resp:	19230
Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.8	52.2
54	51.9	42.2	63.2





#9

Naphthalene

Concen: 1.631 ng

RT: 10.679 min Scan# 945

Delta R.T. 0.010 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

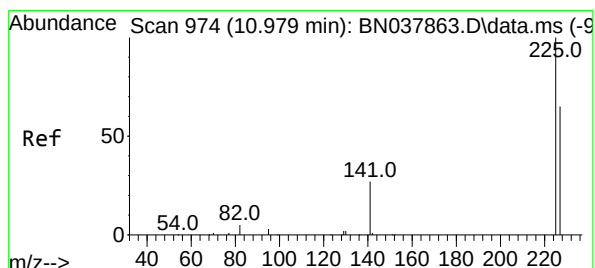
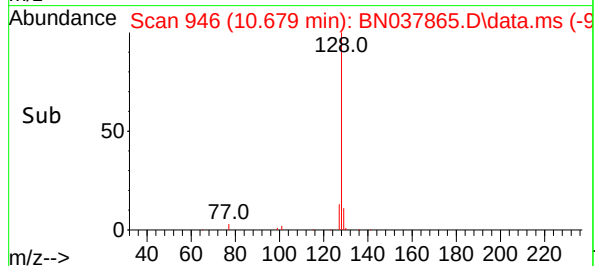
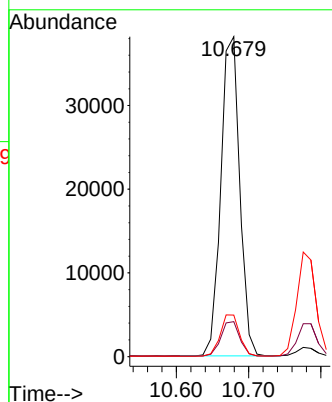
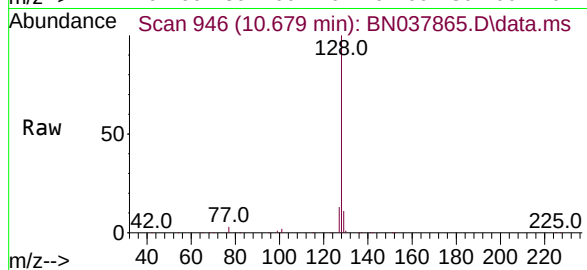
Tgt Ion:128 Resp: 69620

Ion Ratio Lower Upper

128 100

129 10.9 9.2 13.8

127 13.0 11.0 16.6



#10

Hexachlorobutadiene

Concen: 1.634 ng

RT: 10.978 min Scan# 974

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

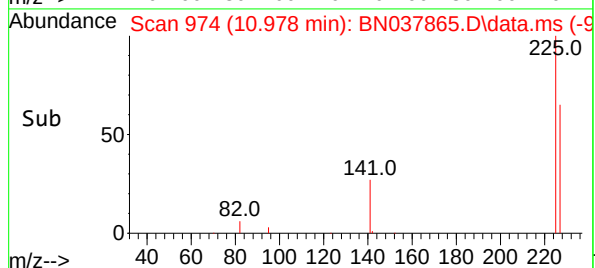
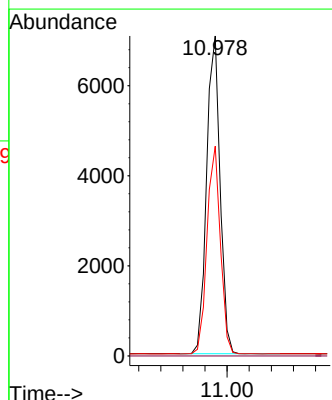
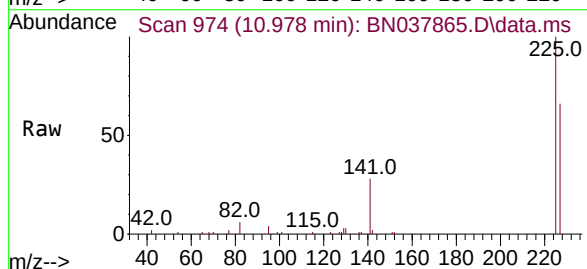
Tgt Ion:225 Resp: 11899

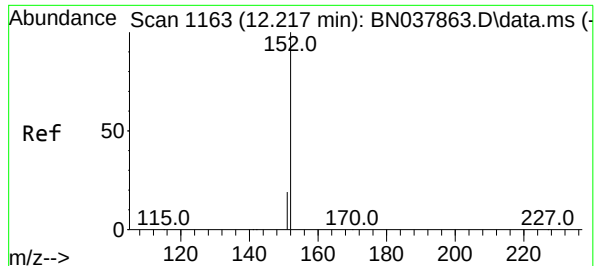
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.6 51.4 77.2

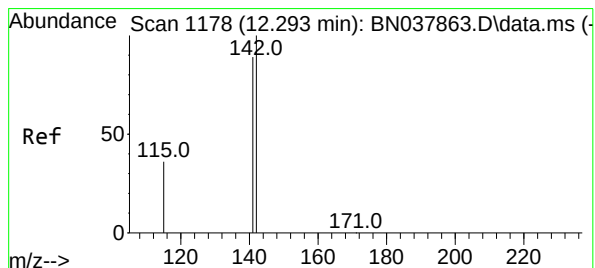
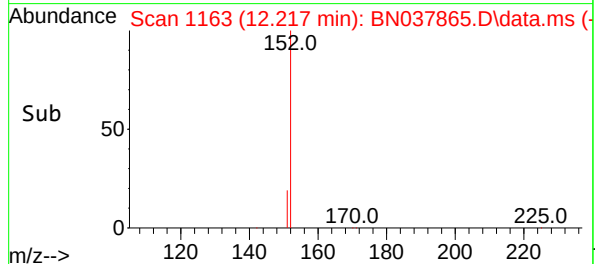
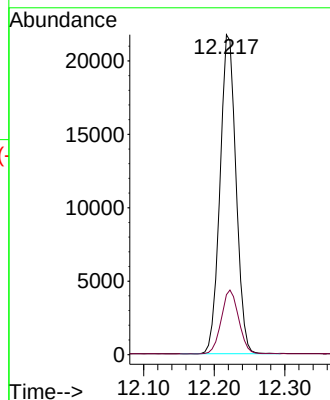
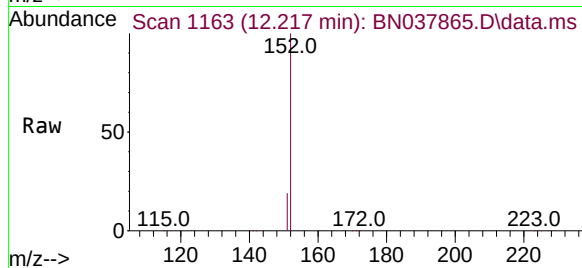




#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

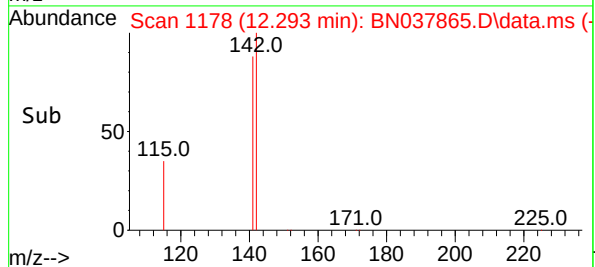
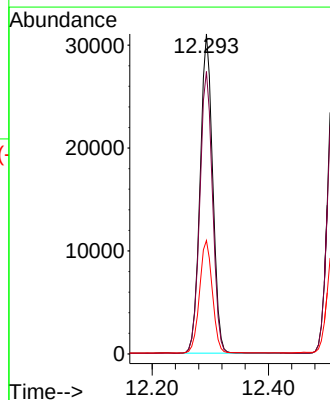
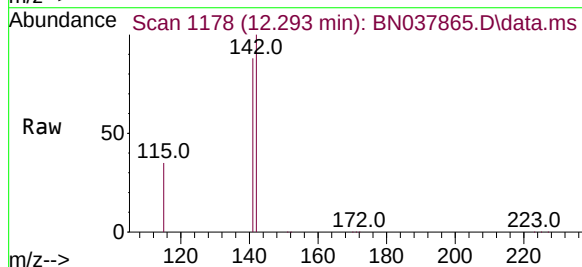
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

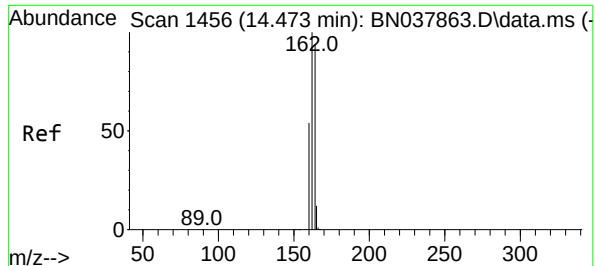
Tgt Ion:152 Resp: 34256
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704
Ion Ratio Lower Upper
142 100
141 88.2 71.2 106.8
115 35.4 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

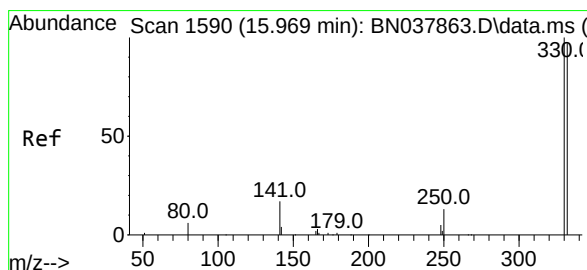
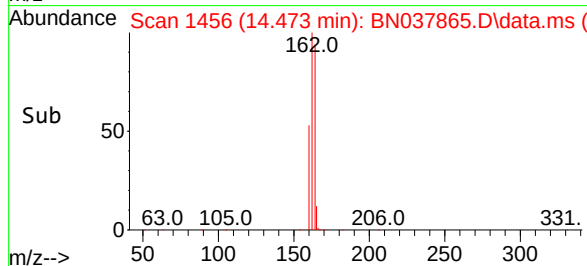
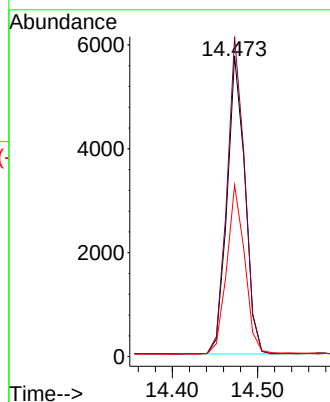
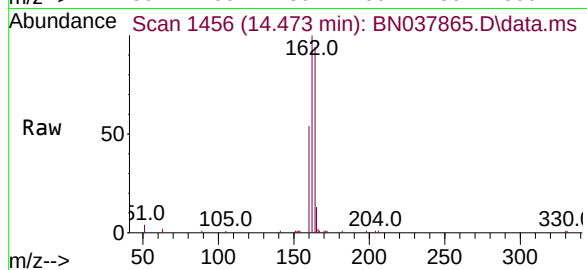
Tgt Ion:164 Resp: 8404

Ion Ratio Lower Upper

164 100

162 106.4 84.8 127.2

160 57.0 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 1.613 ng

RT: 15.969 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

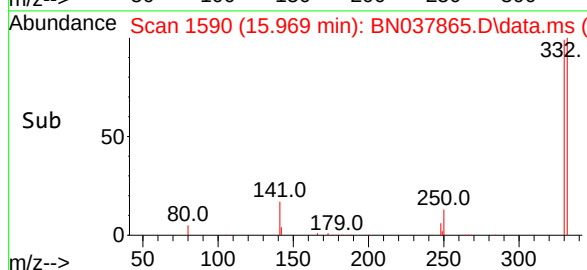
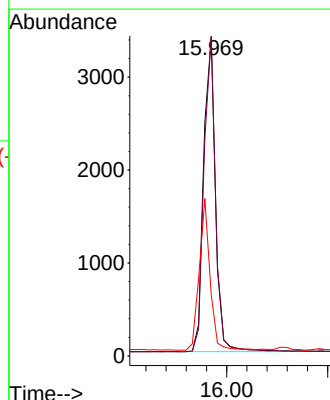
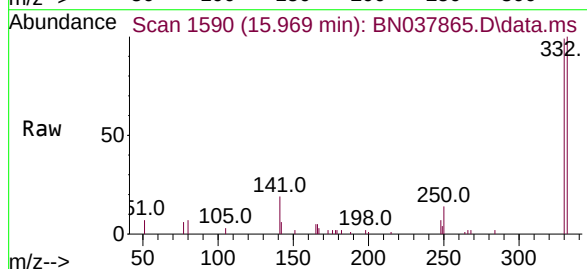
Tgt Ion:330 Resp: 5471

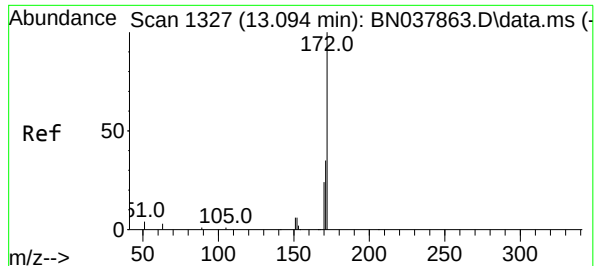
Ion Ratio Lower Upper

330 100

332 98.1 77.2 115.8

141 44.0 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 1.616 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

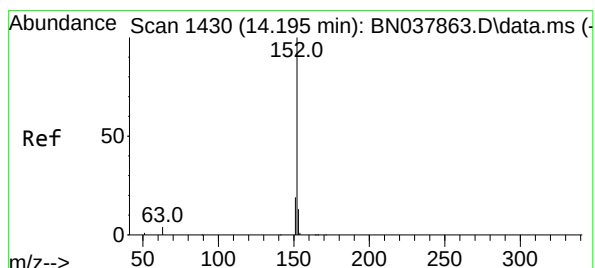
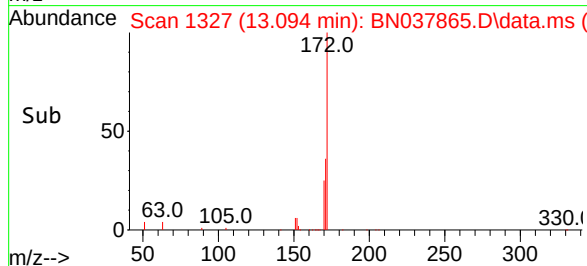
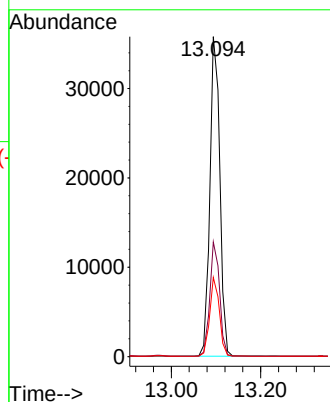
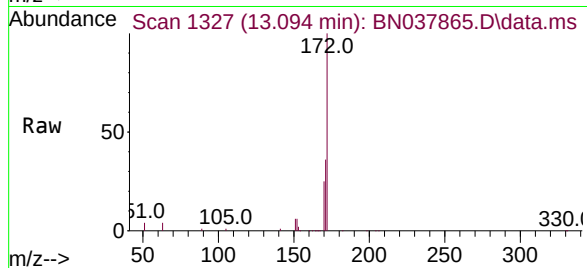
Tgt Ion:172 Resp: 55598

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.7 19.7 29.5



#16

Acenaphthylene

Concen: 1.680 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

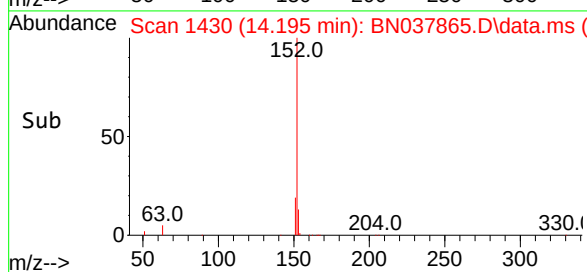
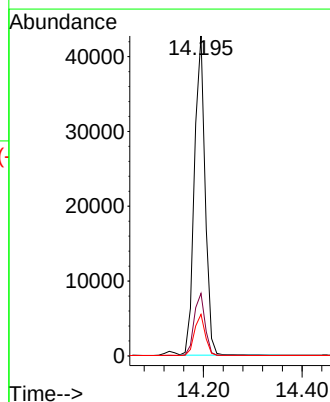
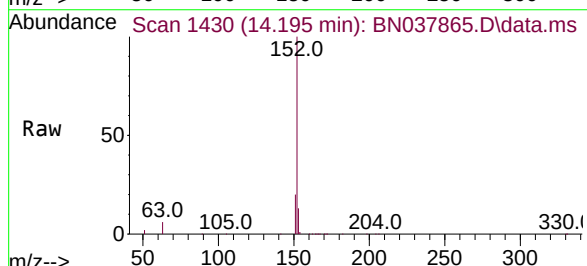
Tgt Ion:152 Resp: 64093

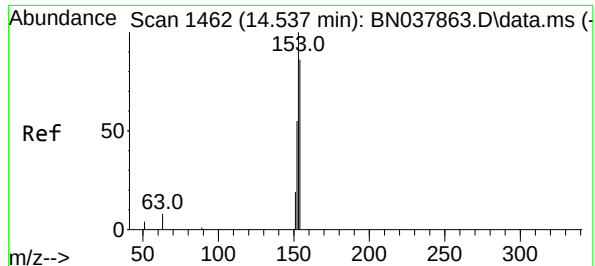
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 1.670 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

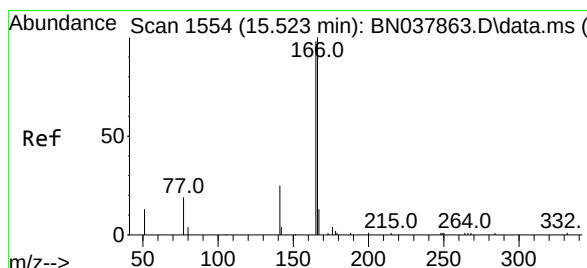
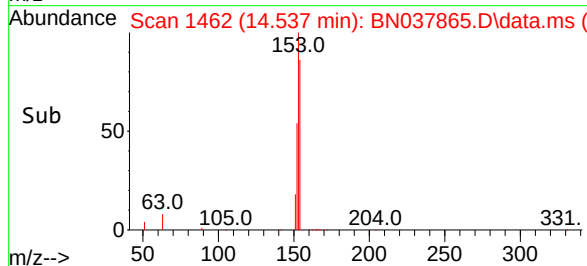
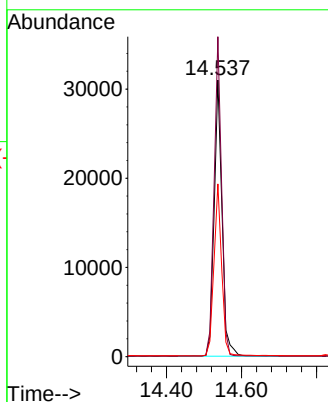
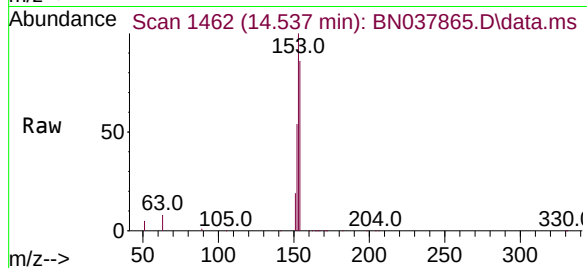
Tgt Ion:154 Resp: 45411

Ion Ratio Lower Upper

154 100

153 110.4 90.5 135.7

152 61.0 51.8 77.8



#18

Fluorene

Concen: 1.701 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

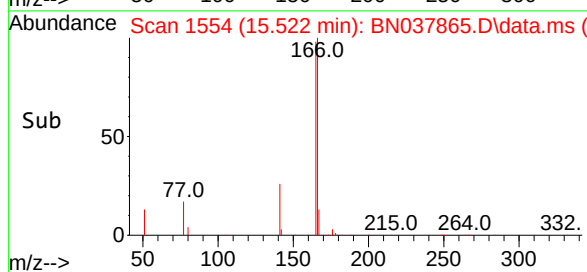
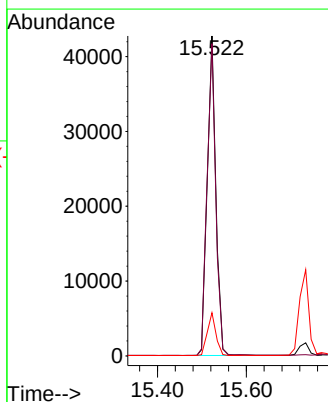
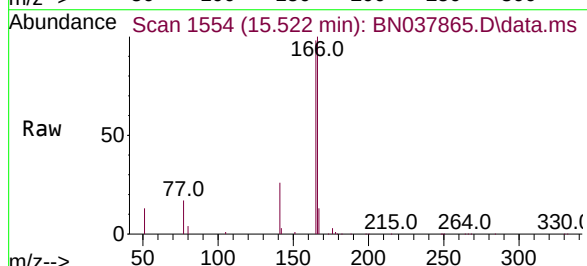
Tgt Ion:166 Resp: 55922

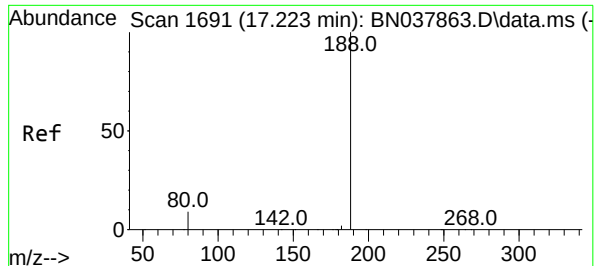
Ion Ratio Lower Upper

166 100

165 99.1 79.0 118.4

167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

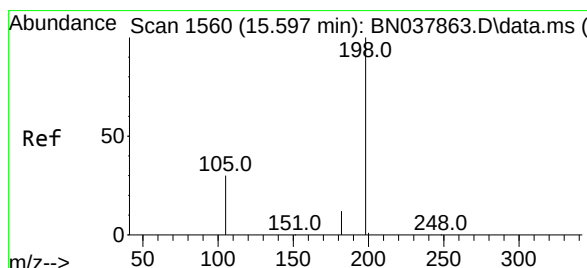
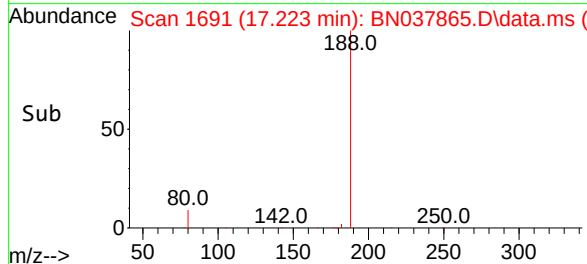
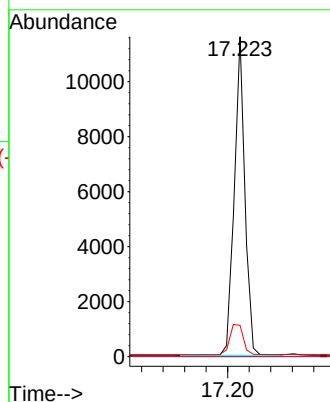
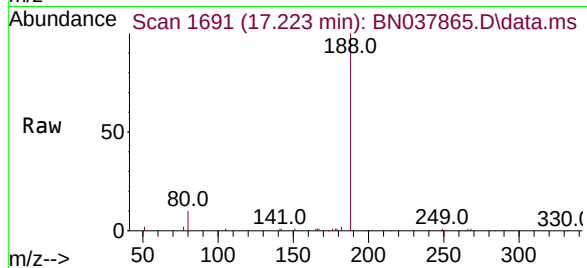
Tgt Ion:188 Resp: 15875

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.602 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

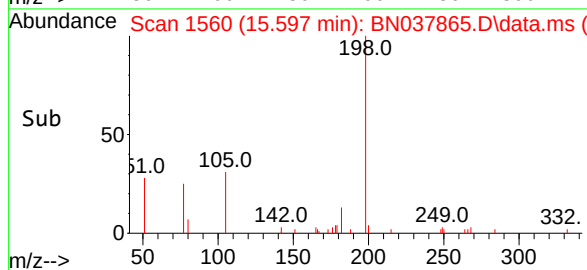
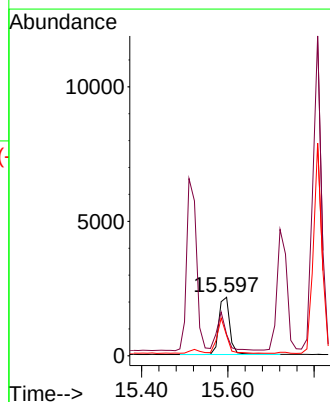
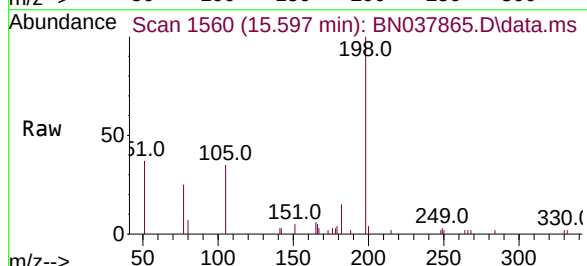
Tgt Ion:198 Resp: 3669

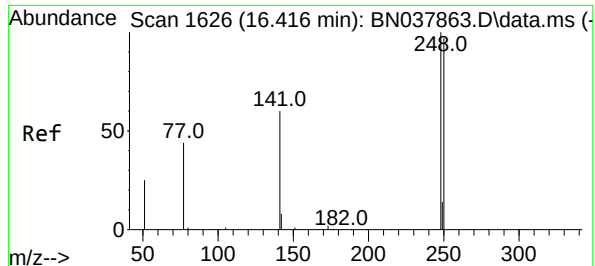
Ion Ratio Lower Upper

198 100

51 36.7 59.1 88.7#

105 34.9 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 1.670 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

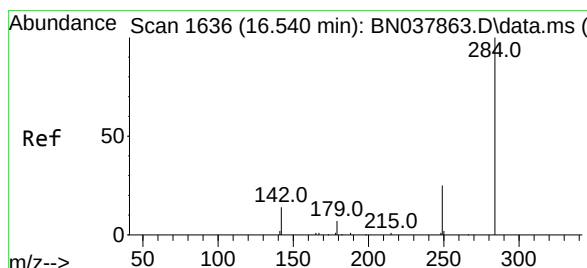
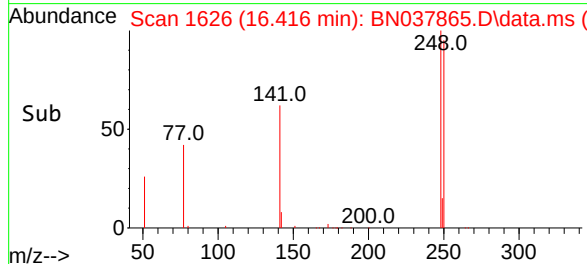
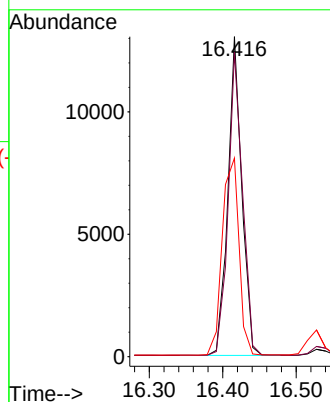
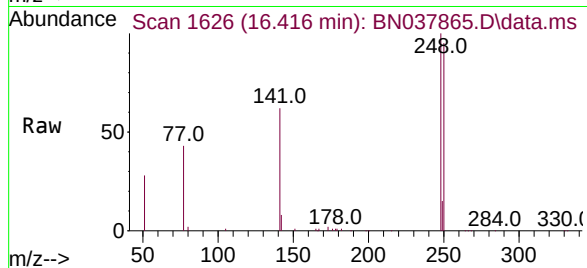
Tgt Ion:248 Resp: 17278

Ion Ratio Lower Upper

248 100

250 95.0 77.6 116.4

141 62.0 48.8 73.2



#22

Hexachlorobenzene

Concen: 1.638 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

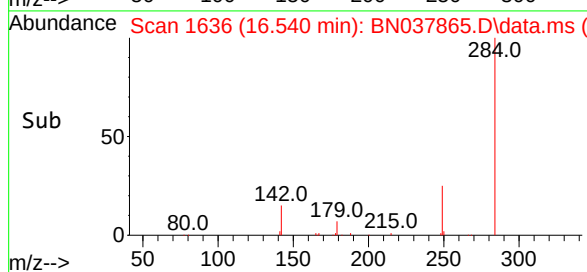
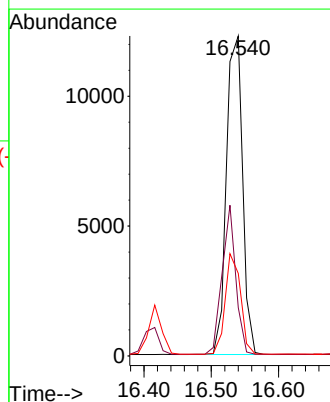
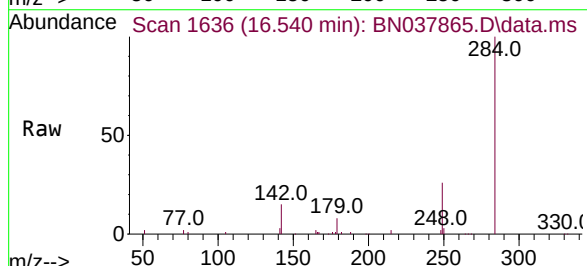
Tgt Ion:284 Resp: 20548

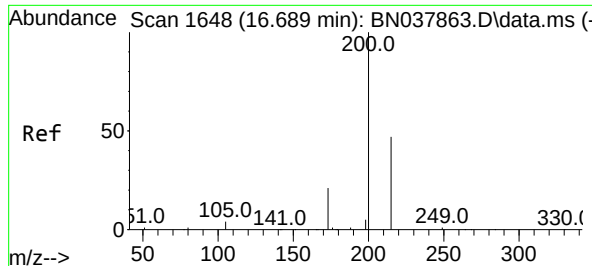
Ion Ratio Lower Upper

284 100

142 39.6 30.9 46.3

249 29.9 23.9 35.9





#23

Atrazine

Concen: 1.656 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

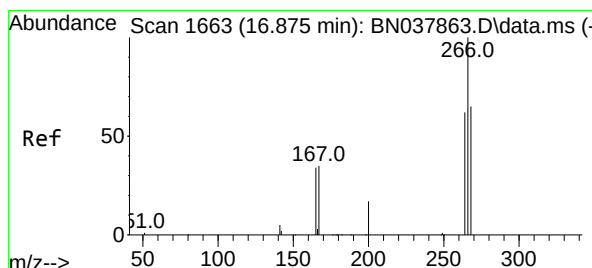
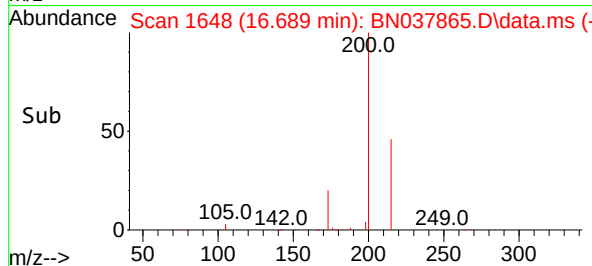
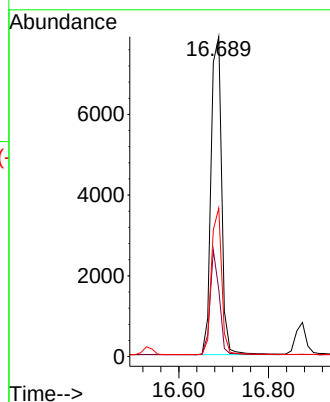
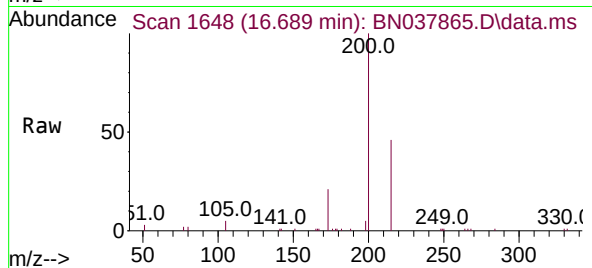
Tgt Ion:200 Resp: 13043

Ion Ratio Lower Upper

200 100

173 21.0 18.3 27.5

215 46.4 38.6 58.0



#24

Pentachlorophenol

Concen: 1.718 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

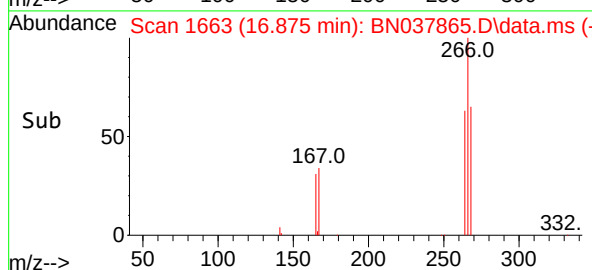
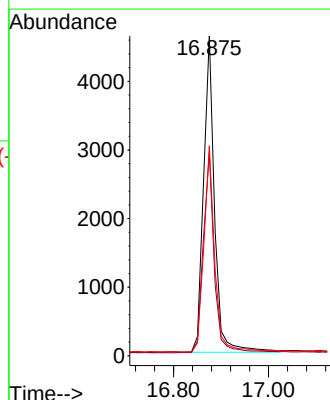
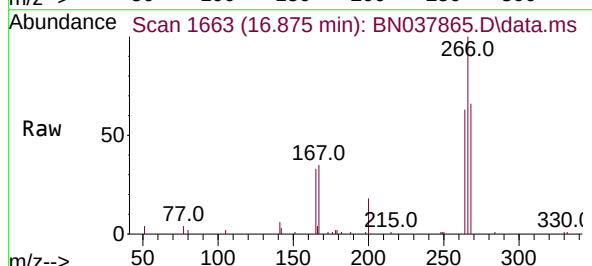
Tgt Ion:266 Resp: 7393

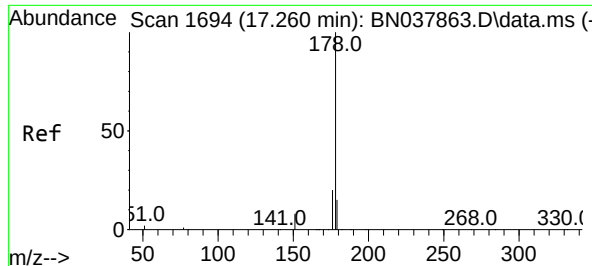
Ion Ratio Lower Upper

266 100

264 63.1 50.9 76.3

268 64.6 54.3 81.5

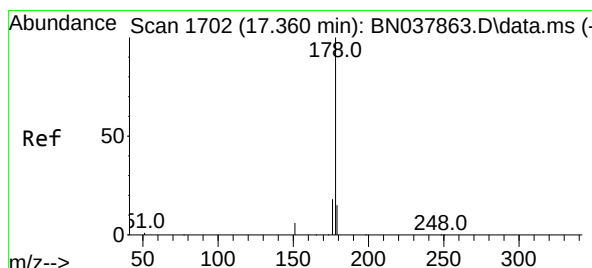
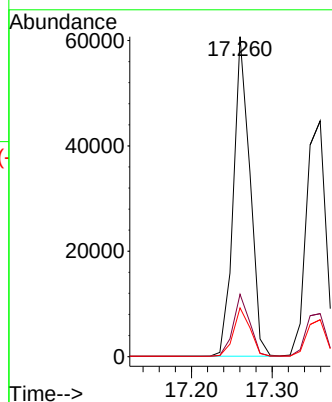
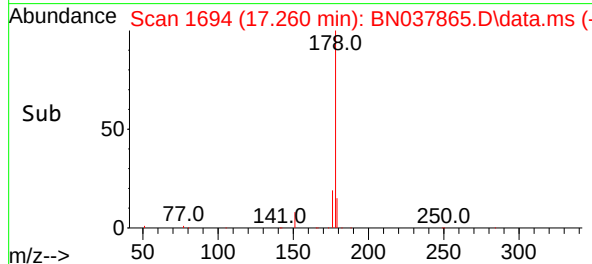
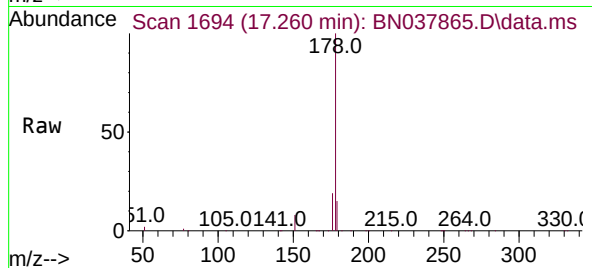




#25
Phenanthrene
Concen: 1.650 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

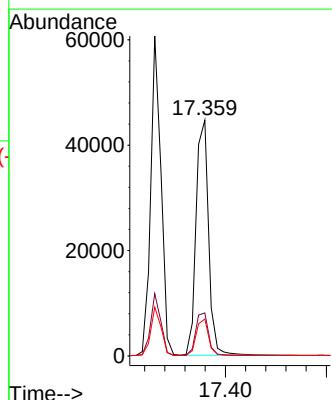
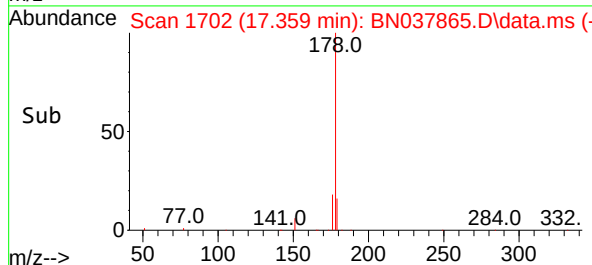
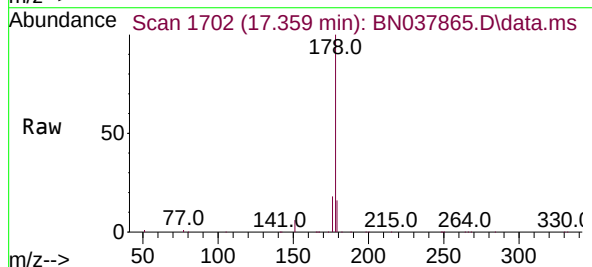
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

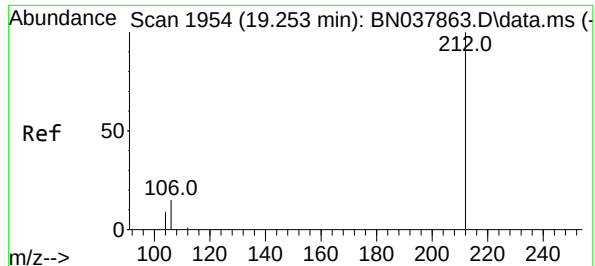
Tgt Ion:178 Resp: 86207
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.3 12.3 18.5



#26
Anthracene
Concen: 1.693 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:178 Resp: 76744
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

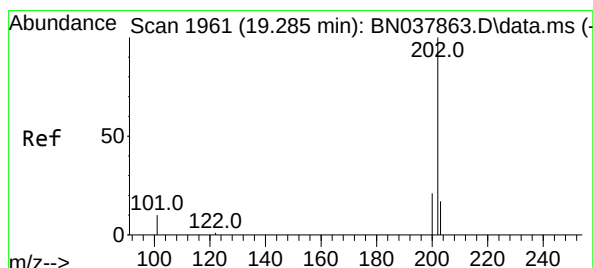
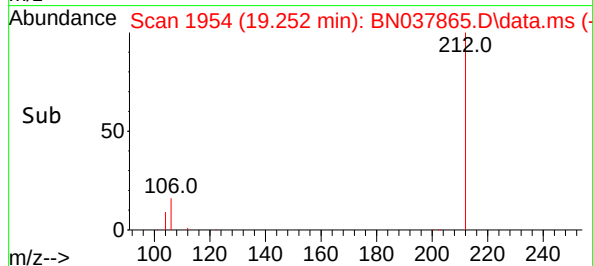
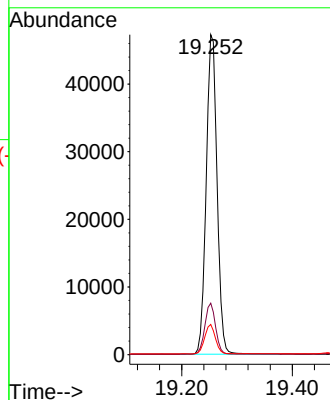
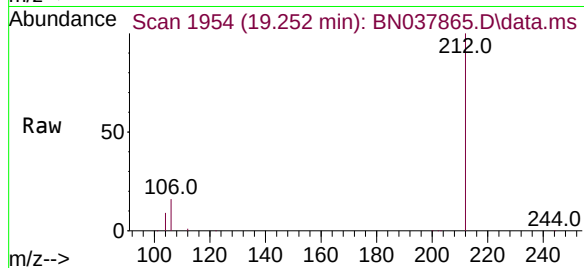
Tgt Ion:212 Resp: 63771

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 1.717 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

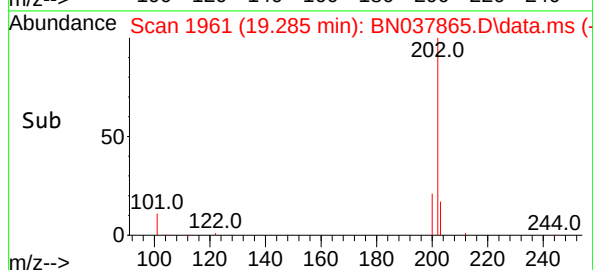
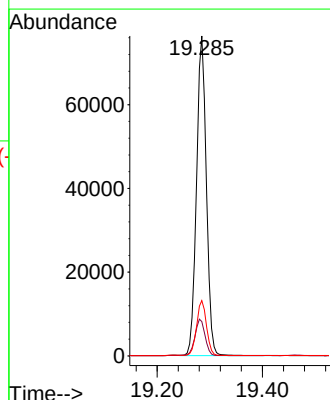
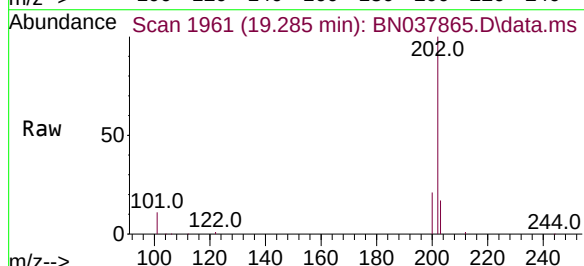
Tgt Ion:202 Resp: 98772

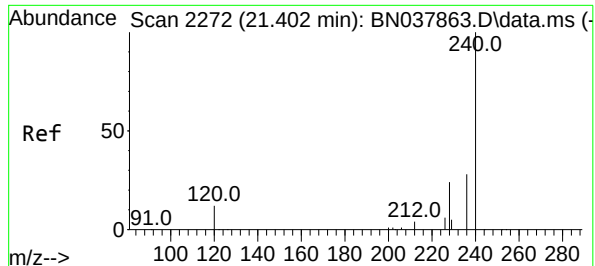
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

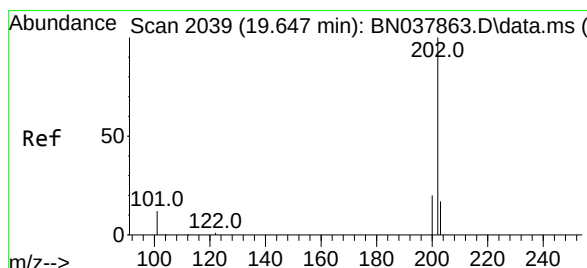
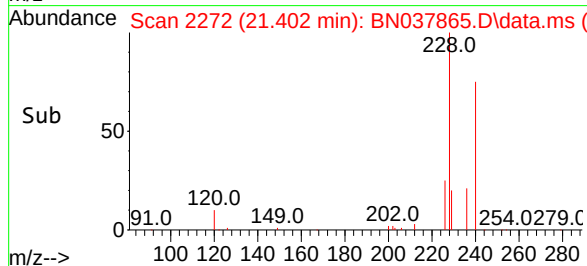
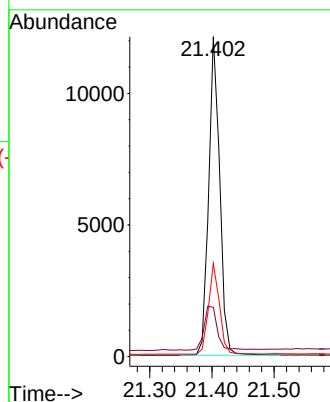
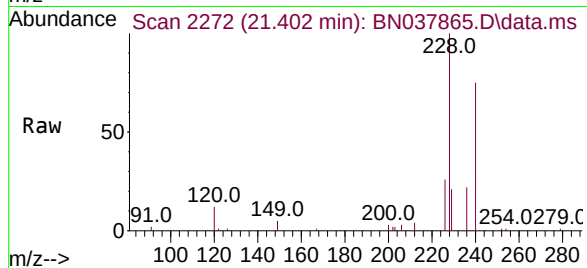
Tgt Ion:240 Resp: 14963

Ion Ratio Lower Upper

240 100

120 15.4 11.4 17.2

236 29.1 23.0 34.6



#30

Pyrene

Concen: 1.628 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

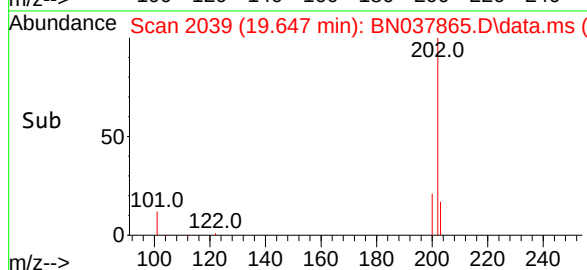
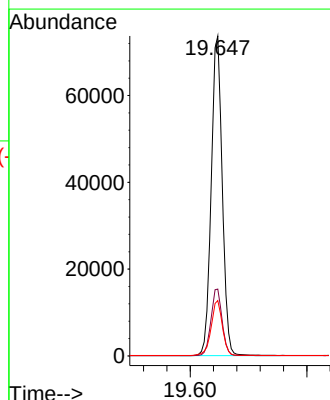
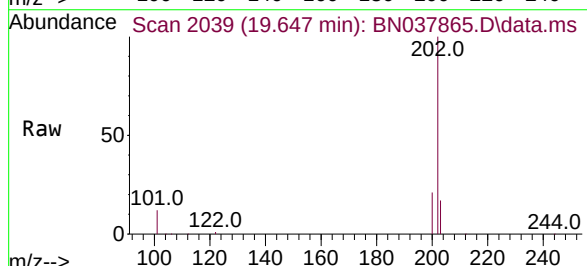
Tgt Ion:202 Resp: 96189

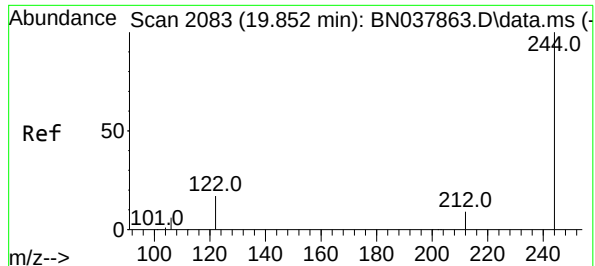
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.4

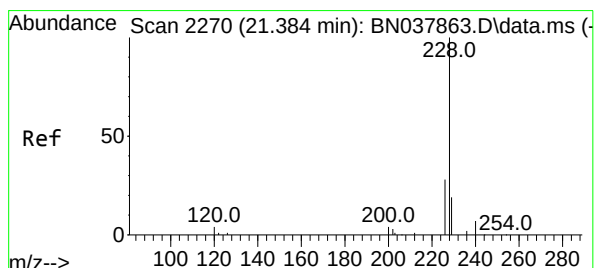
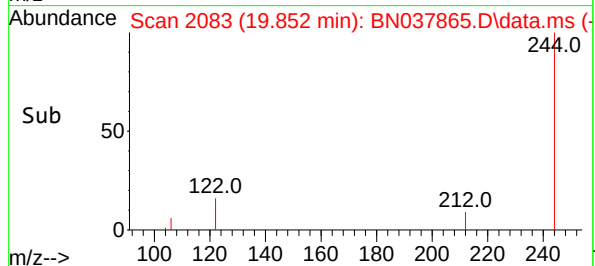
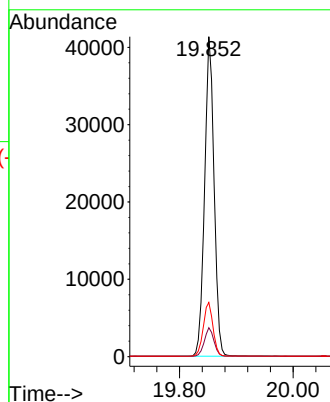
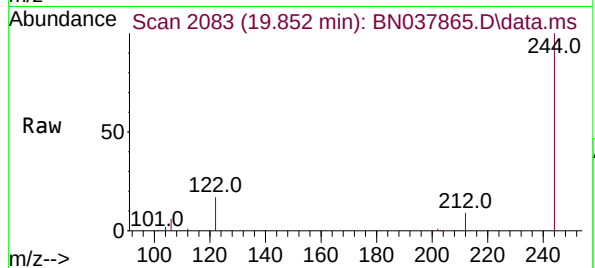




#31
Terphenyl-d14
Concen: 1.603 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

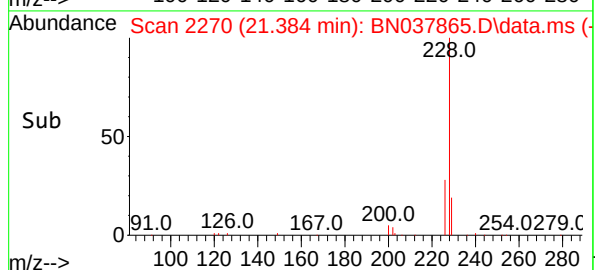
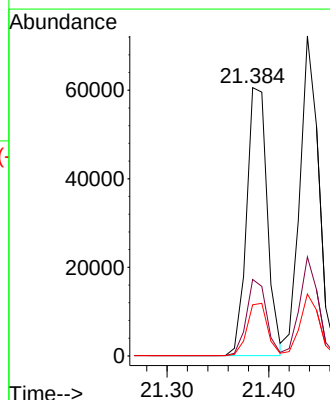
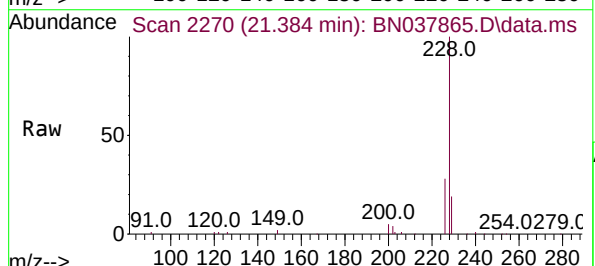
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

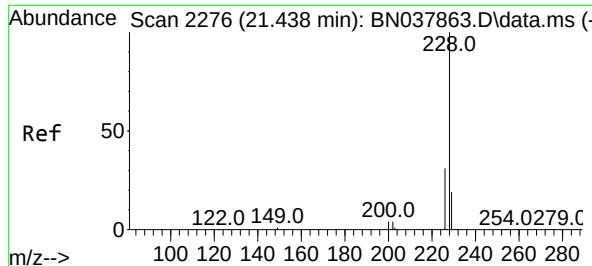
Tgt Ion:244 Resp: 47765
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 16.9 13.9 20.9



#32
Benzo(a)anthracene
Concen: 1.628 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:228 Resp: 85145
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 19.1 15.6 23.4





#33

Chrysene

Concen: 1.650 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

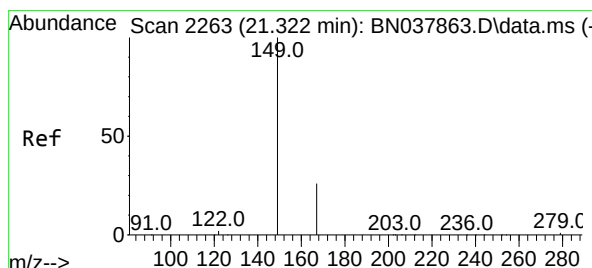
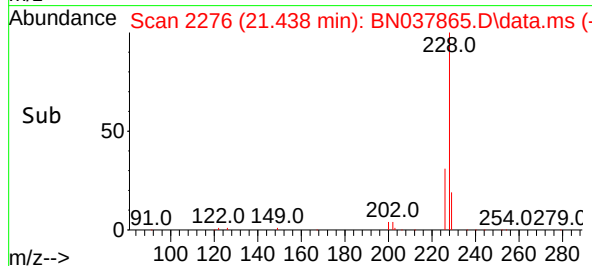
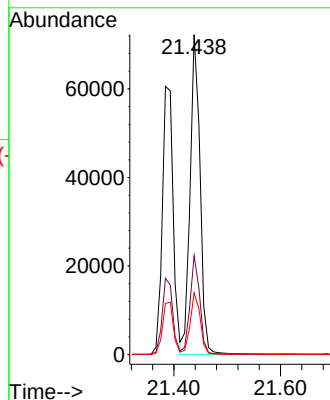
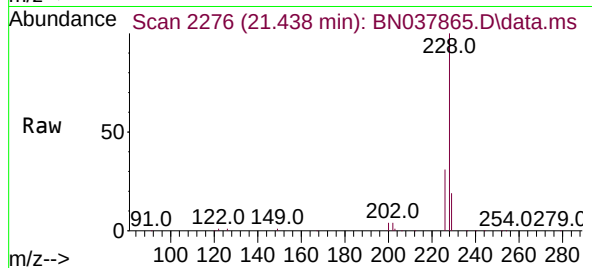
Tgt Ion:228 Resp: 93309

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.500 ng

RT: 21.330 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

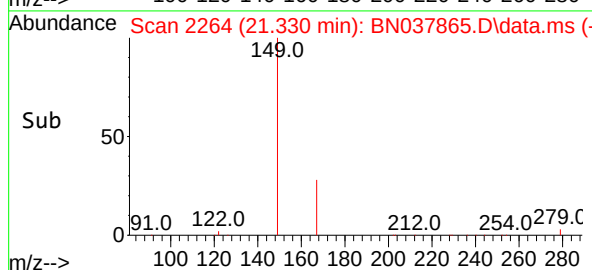
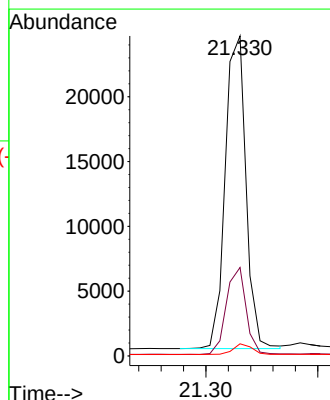
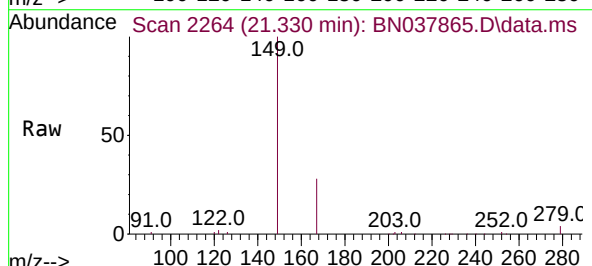
Tgt Ion:149 Resp: 31032

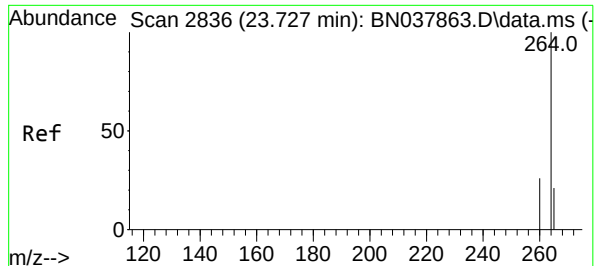
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

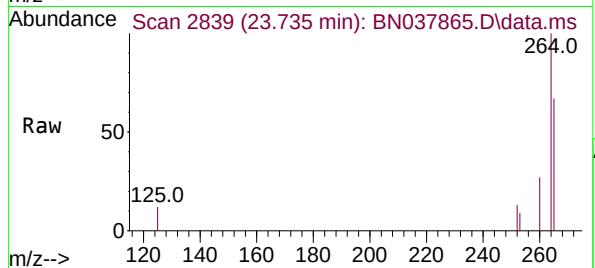
279 3.4 2.4 3.6



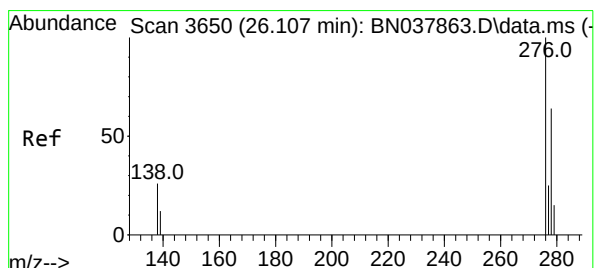
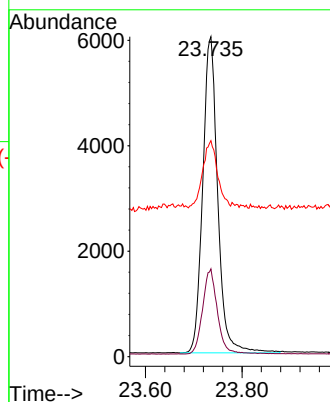
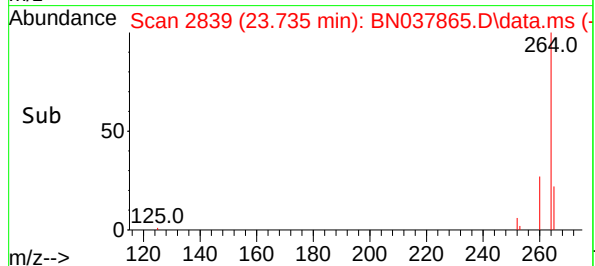


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

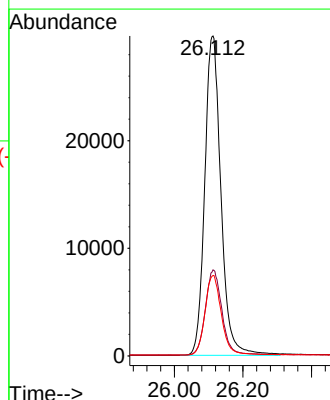
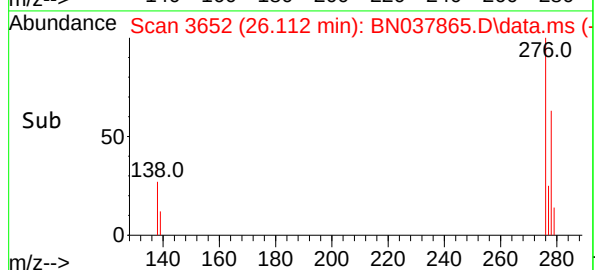
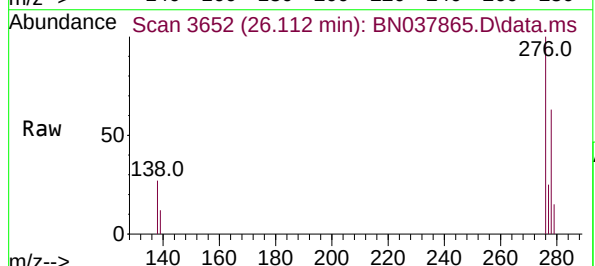


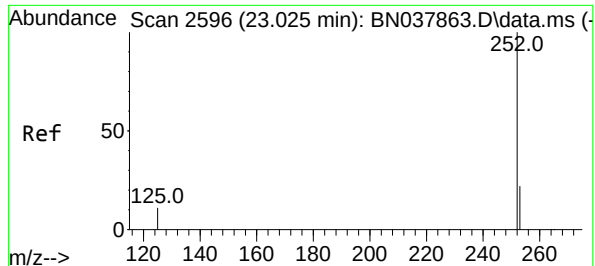
Tgt Ion:264 Resp: 12917
Ion Ratio Lower Upper
264 100
260 27.4 21.5 32.3
265 67.5 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.652 ng
RT: 26.112 min Scan# 3652
Delta R.T. 0.006 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:276 Resp: 97476
Ion Ratio Lower Upper
276 100
138 27.1 21.4 32.0
277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 1.679 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

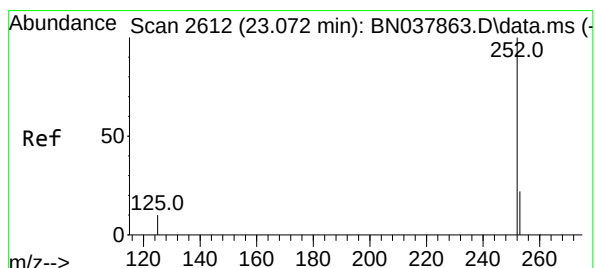
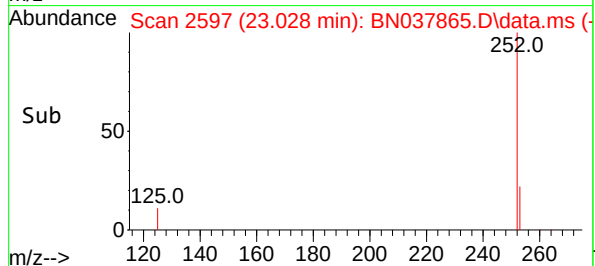
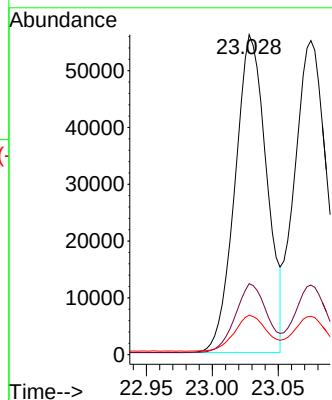
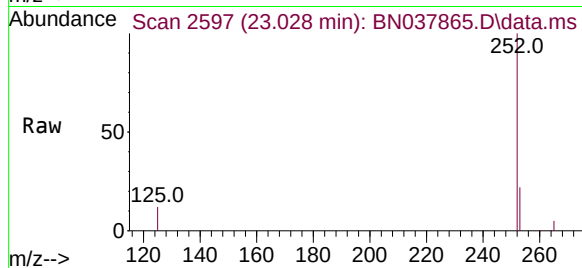
Tgt Ion:252 Resp: 93525

Ion Ratio Lower Upper

252 100

253 22.2 19.4 29.0

125 12.3 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 1.728 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

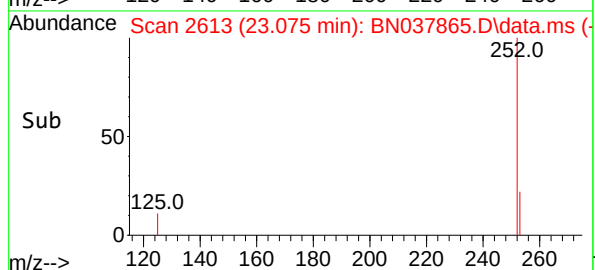
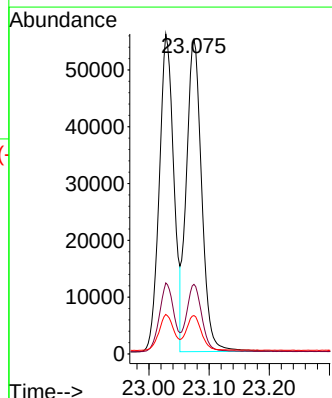
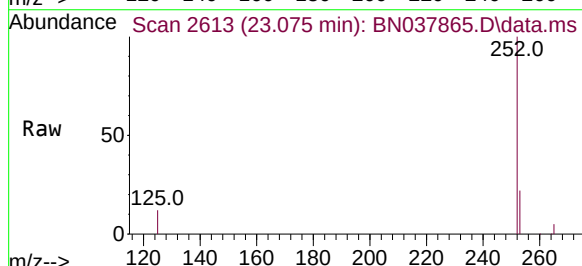
Tgt Ion:252 Resp: 96868

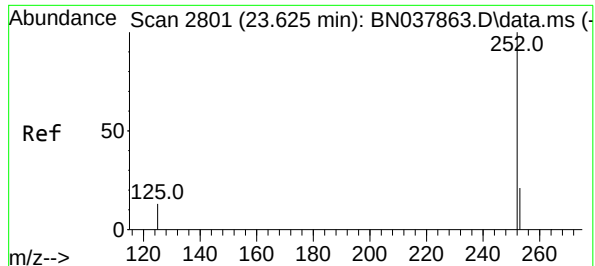
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.657 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

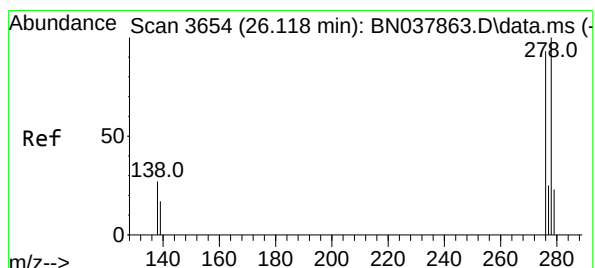
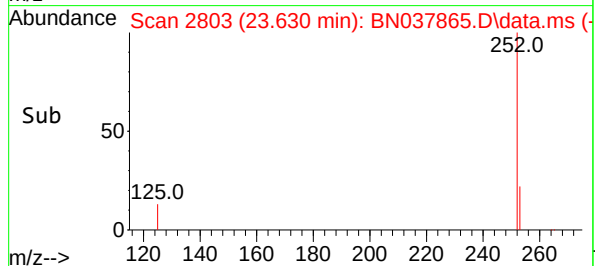
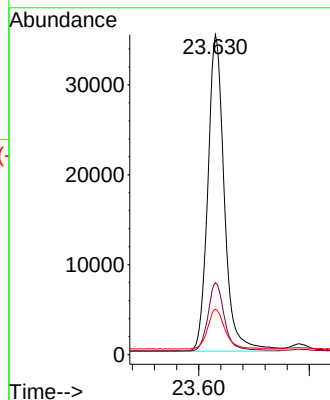
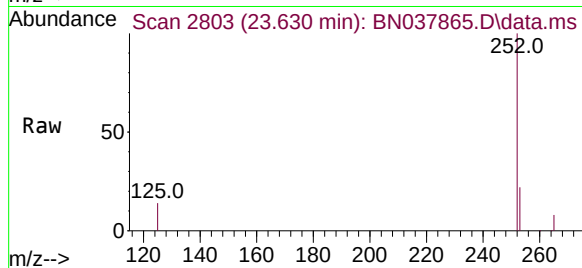
Tgt Ion:252 Resp: 73009

Ion Ratio Lower Upper

252 100

253 22.5 20.6 30.8

125 14.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.676 ng

RT: 26.127 min Scan# 3657

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

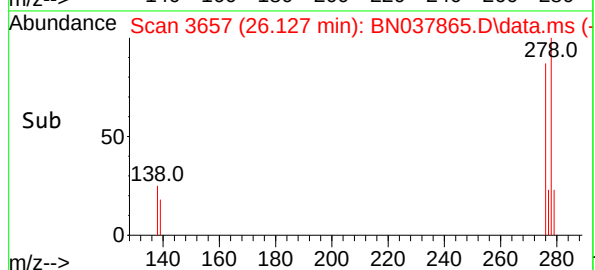
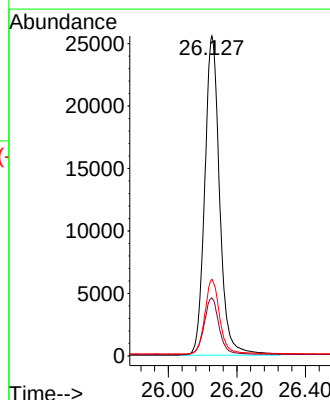
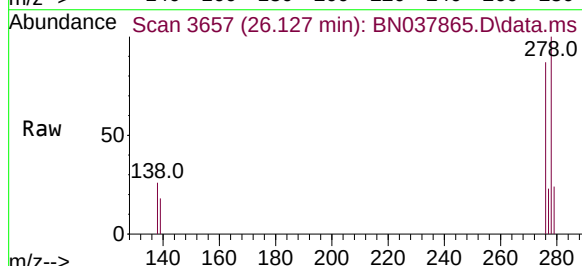
Tgt Ion:278 Resp: 77237

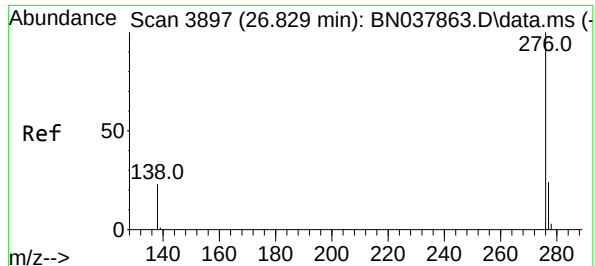
Ion Ratio Lower Upper

278 100

139 18.1 15.4 23.2

279 23.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 1.623 ng

RT: 26.835 min Scan# 3899

Delta R.T. 0.006 min

Lab File: BN037865.D

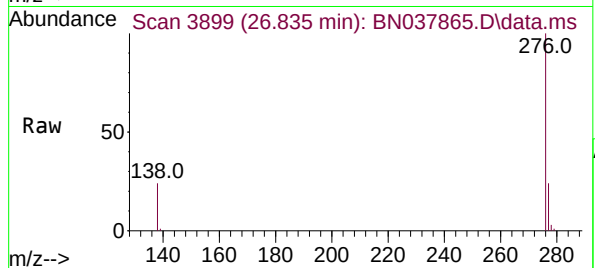
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



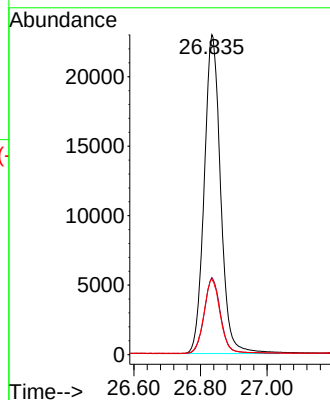
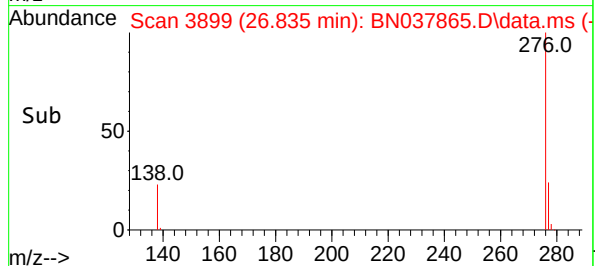
Tgt Ion:276 Resp: 78576

Ion Ratio Lower Upper

276 100

277 24.1 20.2 30.4

138 23.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037866.D
 Acq On : 23 Sep 2025 15:15
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

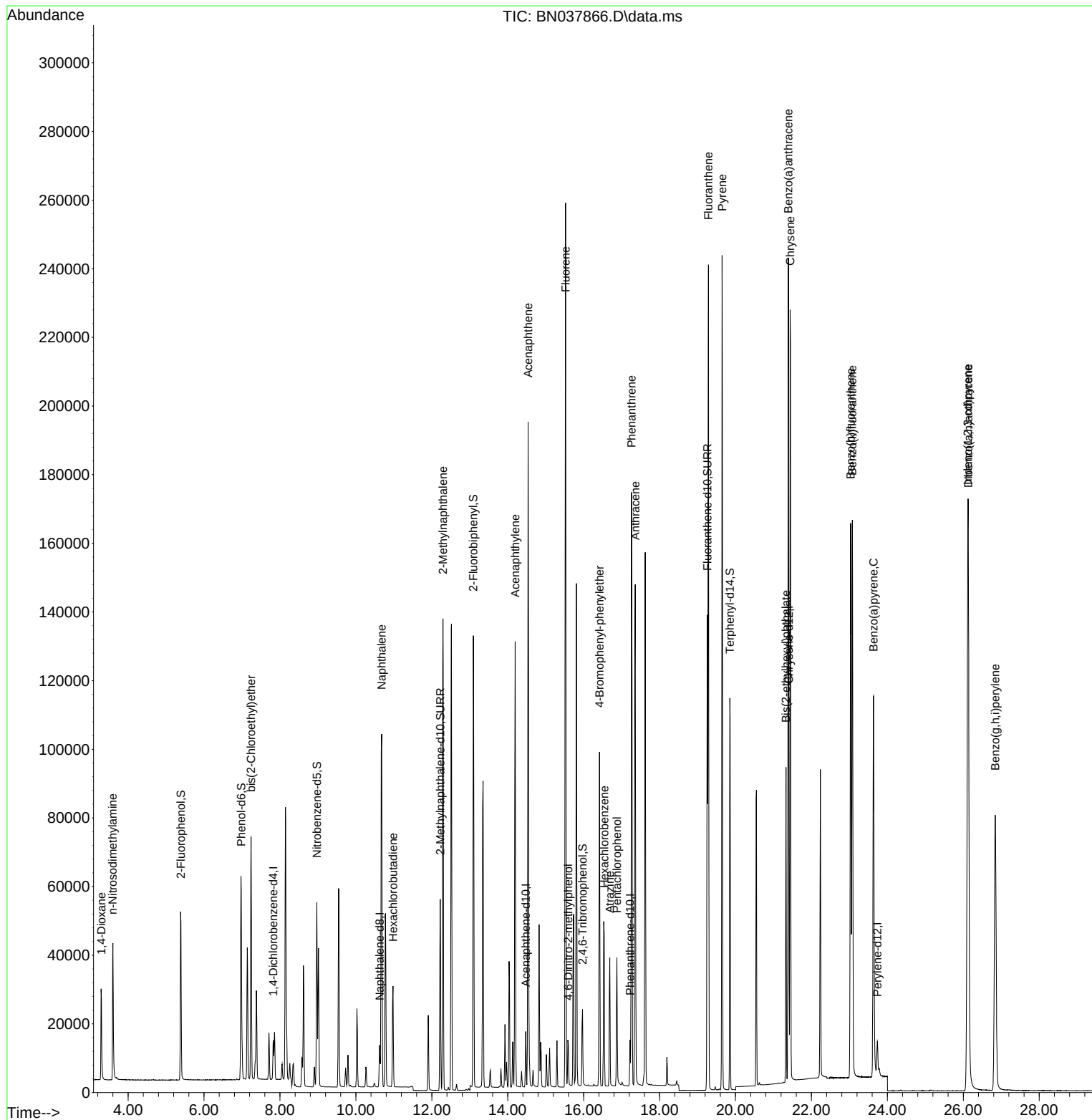
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng	0.00
29) Chrysene-d12	21.402	240	16309	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13684	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	40521	3.237	ng	0.00
5) Phenol-d6	6.980	99	54237	3.297	ng	0.00
8) Nitrobenzene-d5	8.971	82	39859	3.353	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	73211	3.382	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	12677	3.642	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	113791	3.223	ng	0.00
27) Fluoranthene-d10	19.257	212	140845	3.451	ng	0.00
31) Terphenyl-d14	19.852	244	105582	3.250	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	18009	3.234	ng	99
3) n-Nitrosodimethylamine	3.593	42	24113	3.255	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	49318	3.230	ng	100
9) Naphthalene	10.680	128	141732	3.301	ng	98
10) Hexachlorobutadiene	10.979	225	23493	3.208	ng	# 99
12) 2-Methylnaphthalene	12.293	142	96667	3.447	ng	99
16) Acenaphthylene	14.195	152	134565	3.437	ng	100
17) Acenaphthene	14.537	154	94611	3.392	ng	95
18) Fluorene	15.522	166	118468	3.511	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	9172	3.211	ng	# 62
21) 4-Bromophenyl-phenylether	16.416	248	35637	3.370	ng	96
22) Hexachlorobenzene	16.540	284	41902	3.269	ng	100
23) Atrazine	16.689	200	29112	3.616	ng	97
24) Pentachlorophenol	16.875	266	17645	4.011	ng	97
25) Phenanthrene	17.260	178	178985	3.352	ng	99
26) Anthracene	17.360	178	165527	3.573	ng	100
28) Fluoranthene	19.285	202	209920	3.570	ng	99
30) Pyrene	19.647	202	208135	3.232	ng	100
32) Benzo(a)anthracene	21.393	228	193464	3.394	ng	98
33) Chrysene	21.438	228	197283	3.201	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	74195	3.291	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	218487	3.494	ng	100
37) Benzo(b)fluoranthene	23.031	252	202282	3.428	ng	# 93
38) Benzo(k)fluoranthene	23.078	252	209819	3.534	ng	# 93
39) Benzo(a)pyrene	23.636	252	163321	3.499	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	173724	3.558	ng	96
41) Benzo(g,h,i)perylene	26.841	276	176617	3.443	ng	97

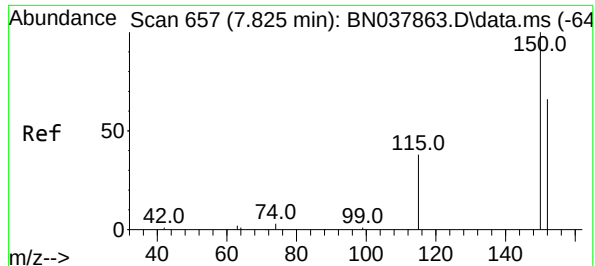
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037866.D
Acq On : 23 Sep 2025 15:15
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

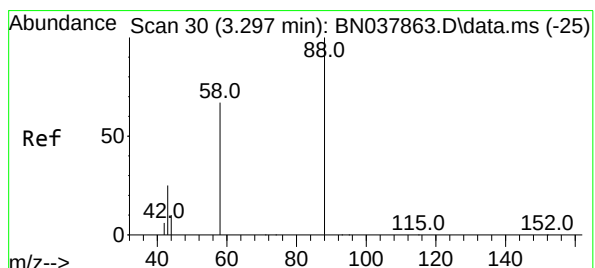
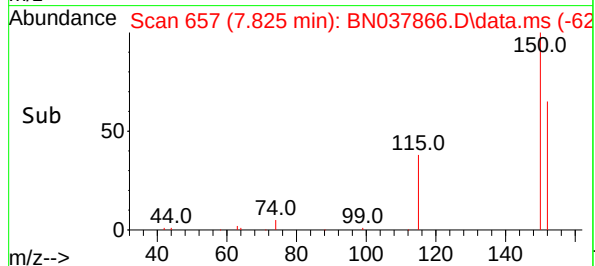
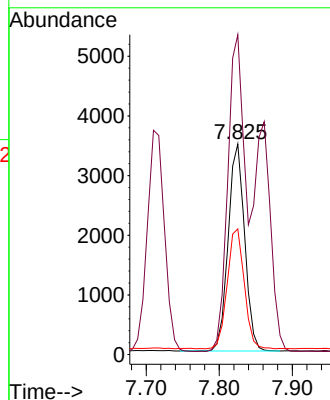
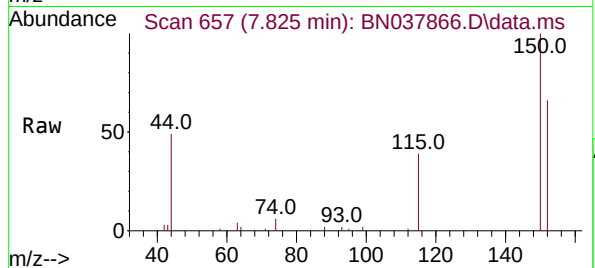




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

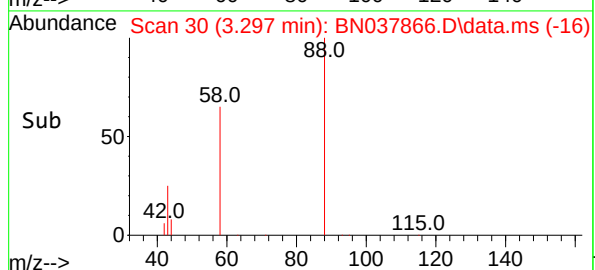
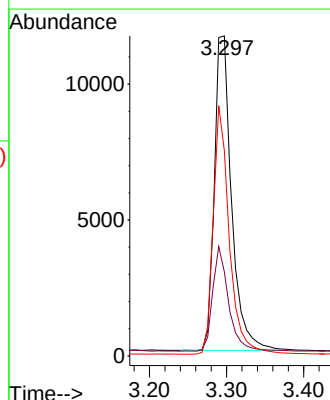
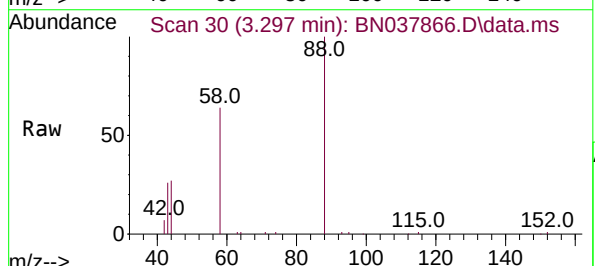
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

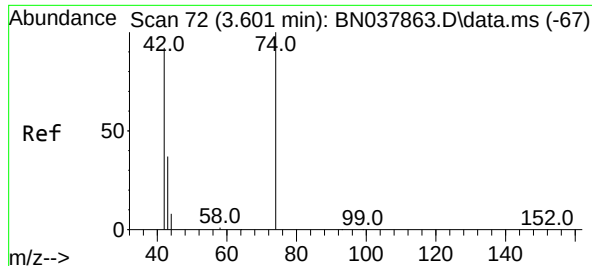
Tgt Ion:152 Resp: 5486
Ion Ratio Lower Upper
152 100
150 151.9 121.0 181.4
115 59.6 47.4 71.0



#2
1,4-Dioxane
Concen: 3.234 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 88 Resp: 18009
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 73.6 58.9 88.3

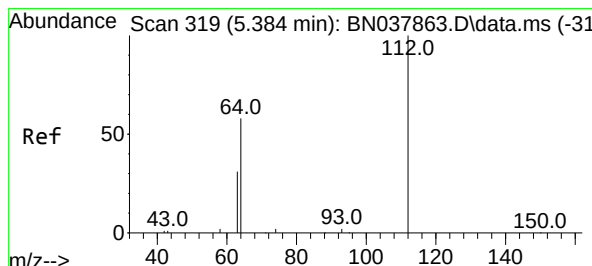
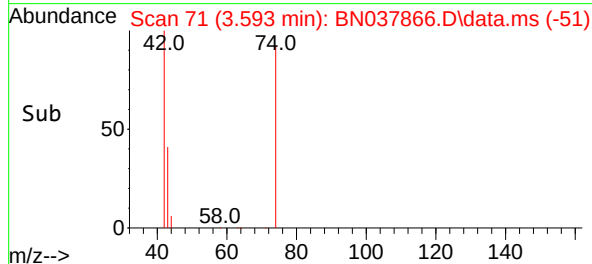
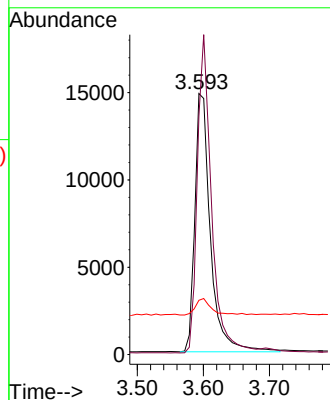
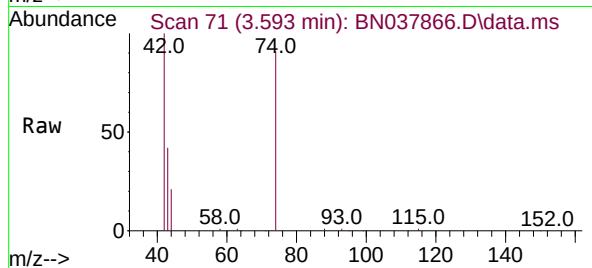




#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

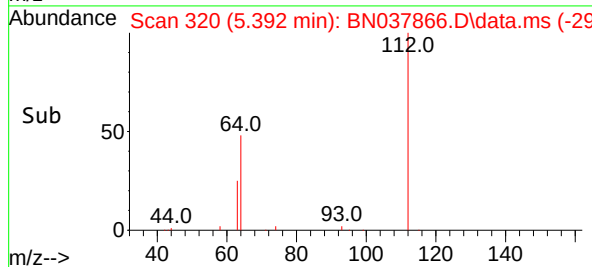
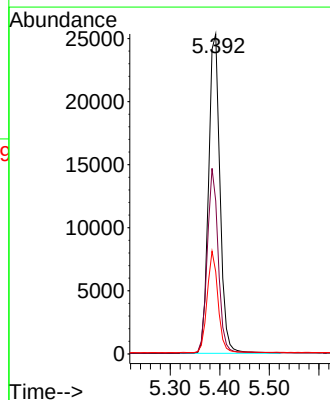
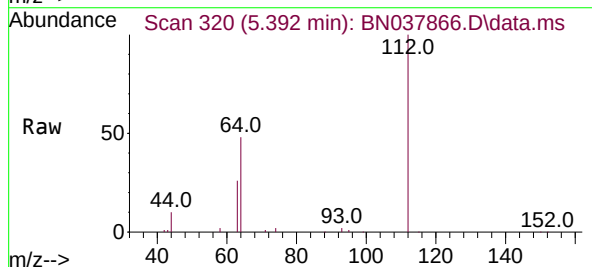
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

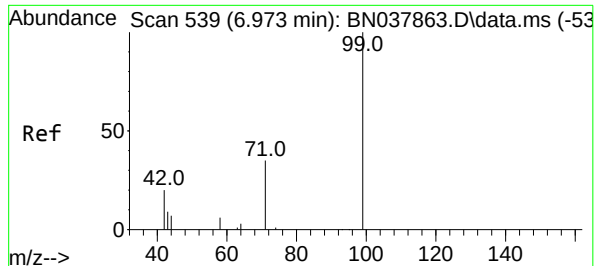
Tgt Ion: 42 Resp: 24113
Ion Ratio Lower Upper
42 100
74 112.5 93.4 140.0
44 6.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 3.237 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 112 Resp: 40521
Ion Ratio Lower Upper
112 100
64 55.6 44.6 66.8
63 30.1 24.9 37.3

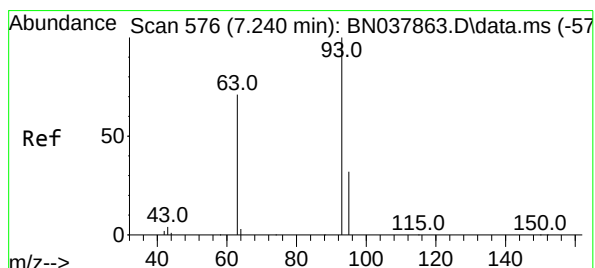
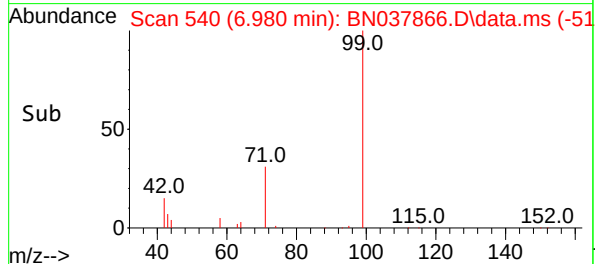
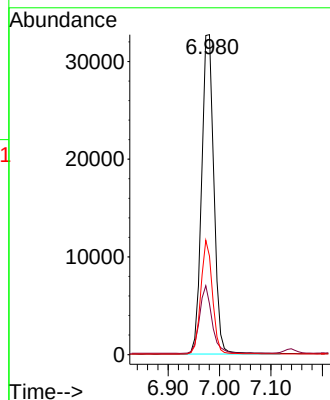
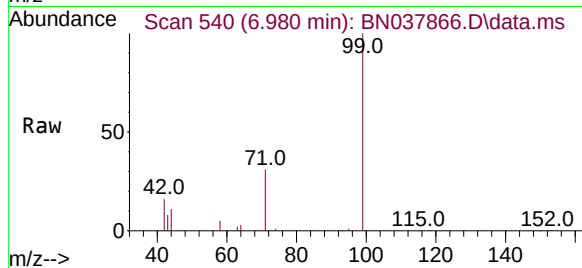




#5
Phenol-d6
Concen: 3.297 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

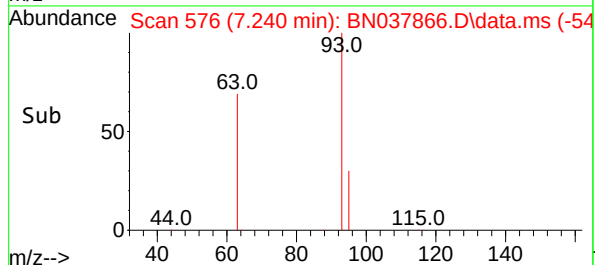
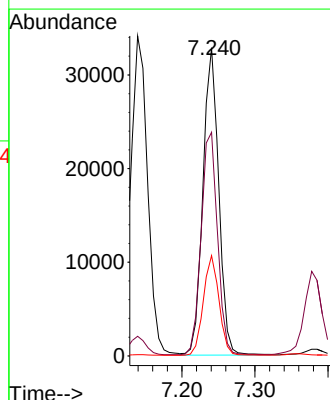
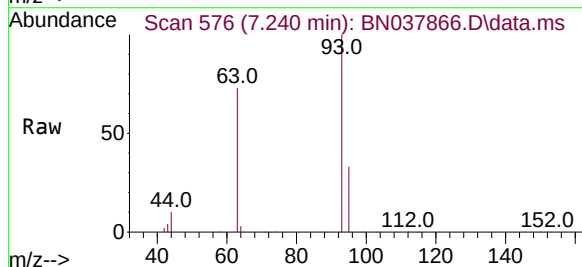
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

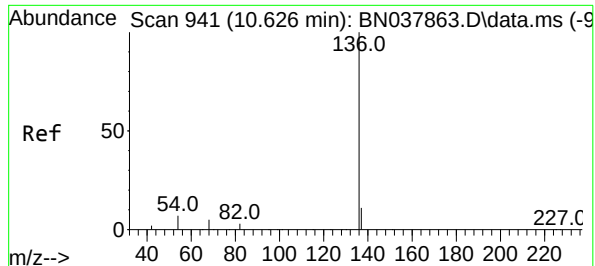
Tgt Ion: 99 Resp: 54237
Ion Ratio Lower Upper
99 100
42 21.2 17.2 25.8
71 33.7 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 3.230 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 93 Resp: 49318
Ion Ratio Lower Upper
93 100
63 74.8 60.1 90.1
95 32.1 25.4 38.2

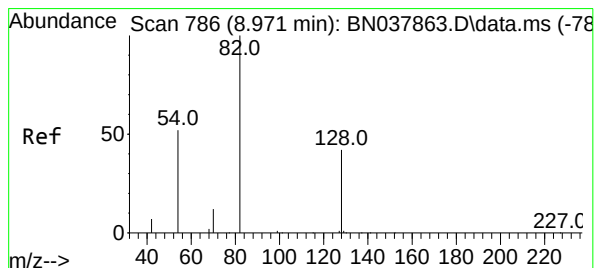
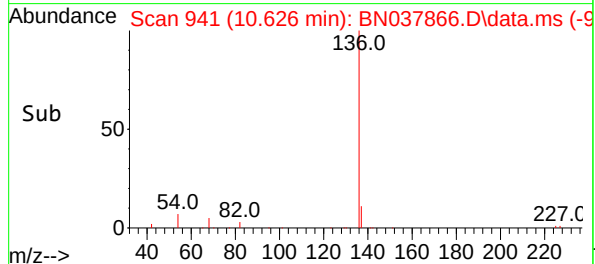
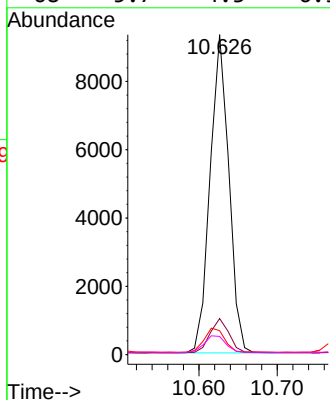
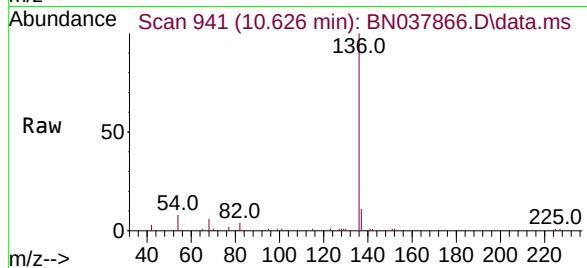




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

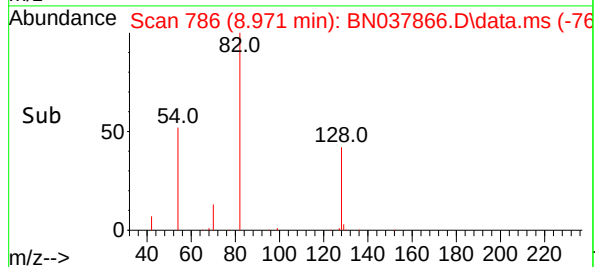
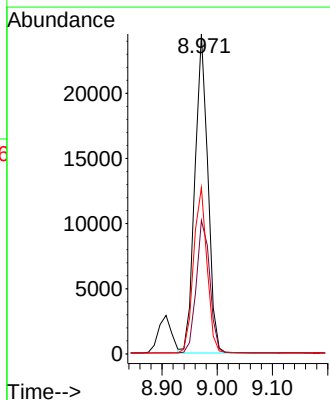
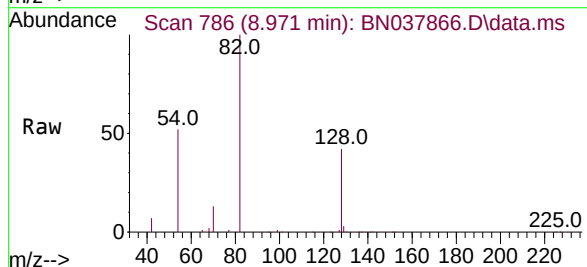
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

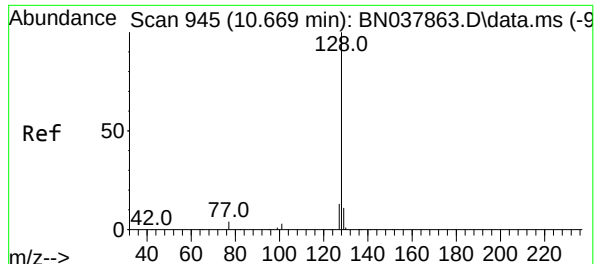
Tgt Ion:	136	Resp:	15583
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 3.353 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:	82	Resp:	39859
Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.8	52.2
54	52.0	42.2	63.2

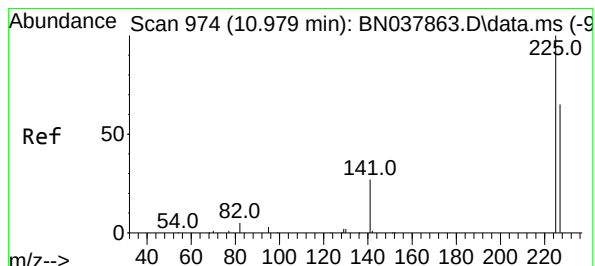
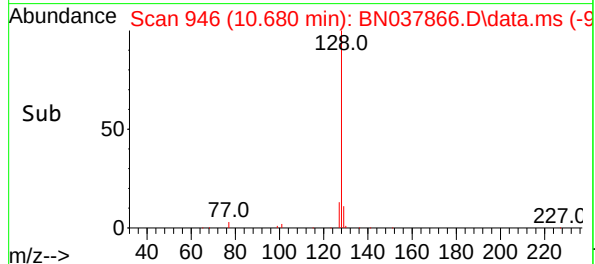
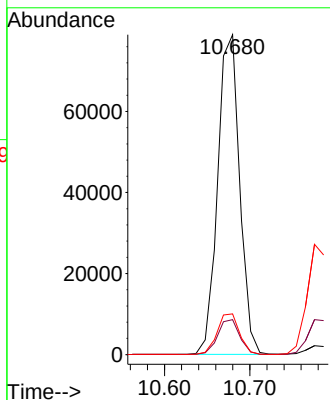
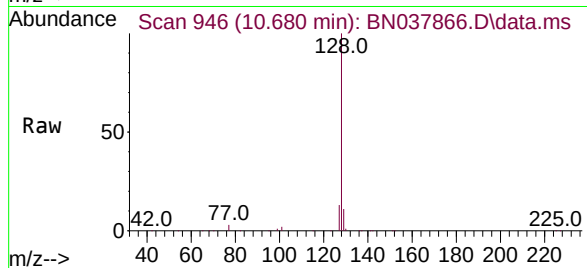




#9
Naphthalene
Concen: 3.301 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

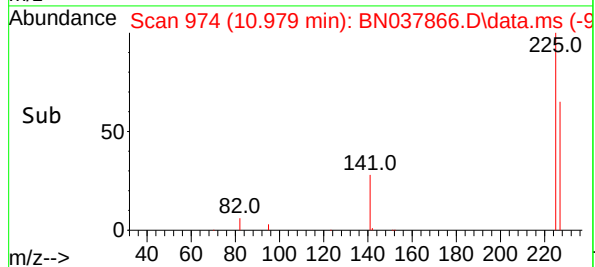
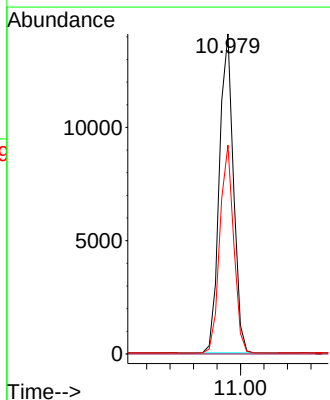
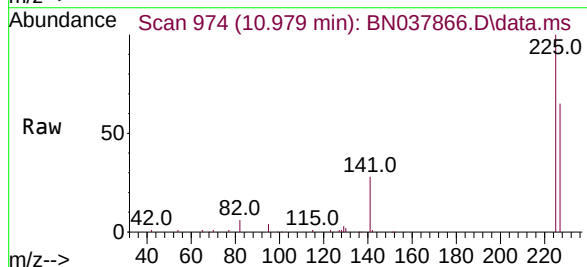
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

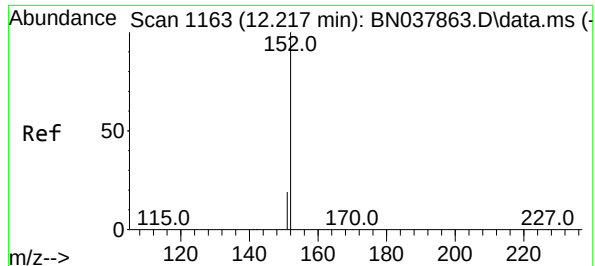
Tgt Ion:128 Resp: 141732
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 12.7 11.0 16.6



#10
Hexachlorobutadiene
Concen: 3.208 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:225 Resp: 23493
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.4 77.2

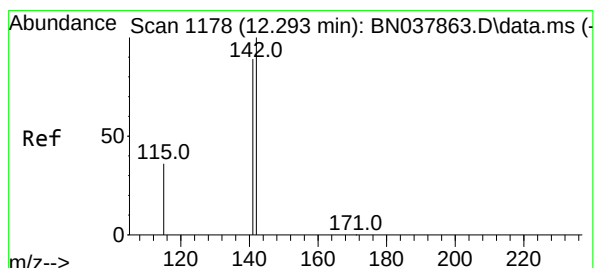
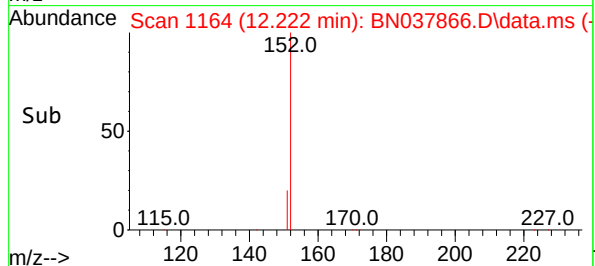
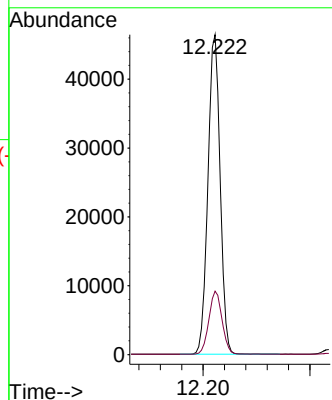
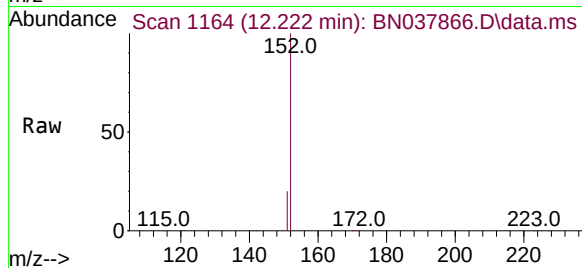




#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

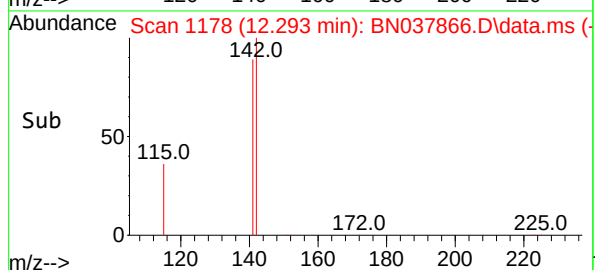
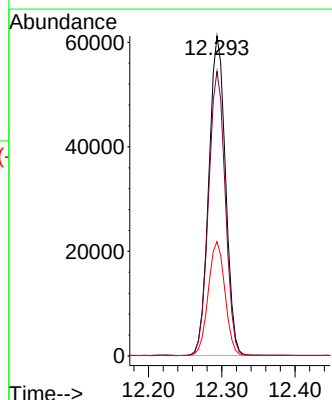
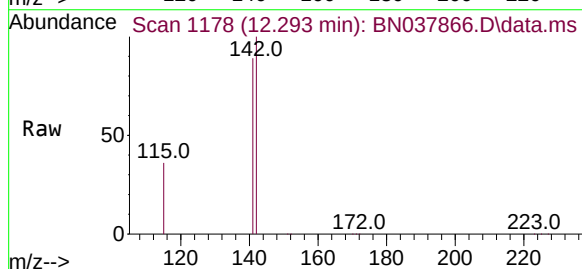
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

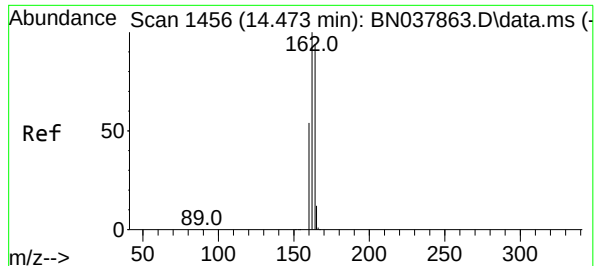
Tgt Ion:152 Resp: 73211
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#12
2-Methylnaphthalene
Concen: 3.447 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:142 Resp: 96667
Ion Ratio Lower Upper
142 100
141 88.9 71.2 106.8
115 35.7 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

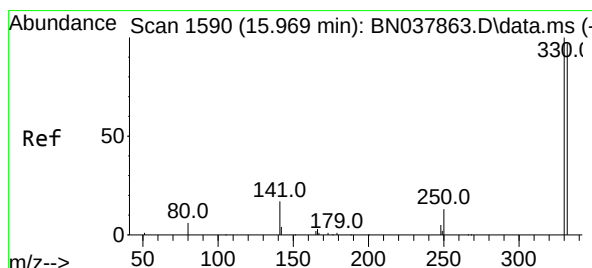
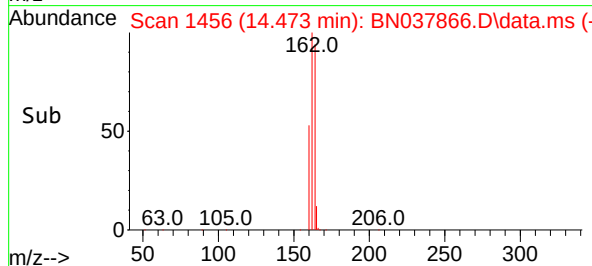
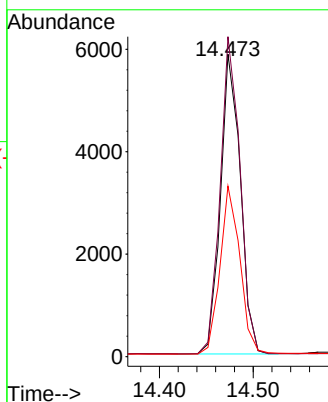
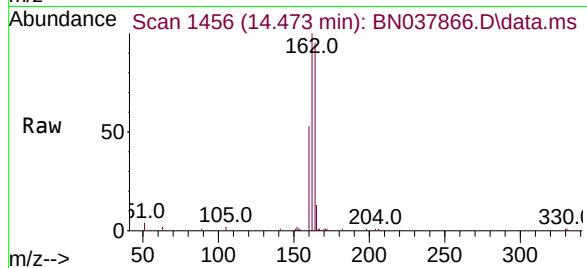
Tgt Ion:164 Resp: 8623

Ion Ratio Lower Upper

164 100

162 105.8 84.8 127.2

160 56.4 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 3.642 ng

RT: 15.969 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

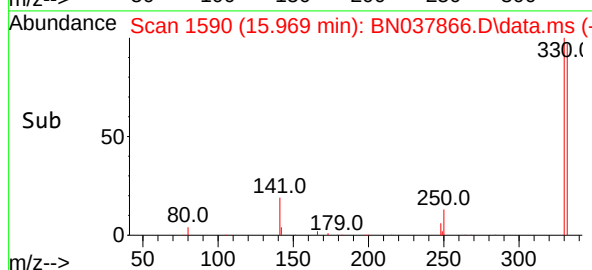
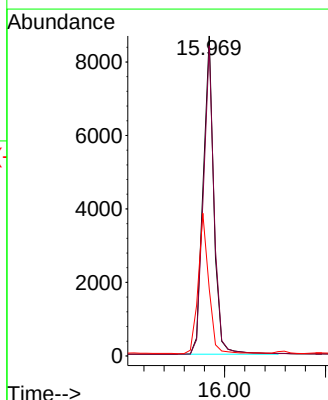
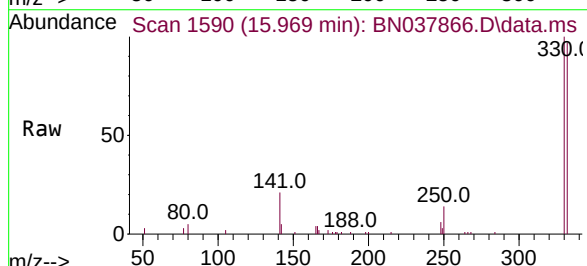
Tgt Ion:330 Resp: 12677

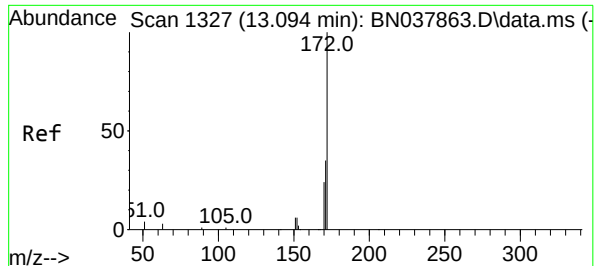
Ion Ratio Lower Upper

330 100

332 97.5 77.2 115.8

141 44.0 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 3.223 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

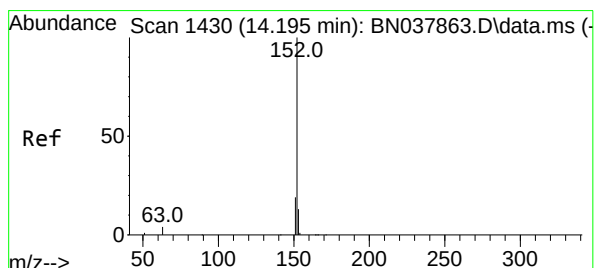
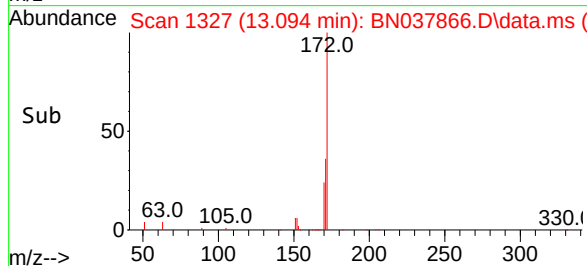
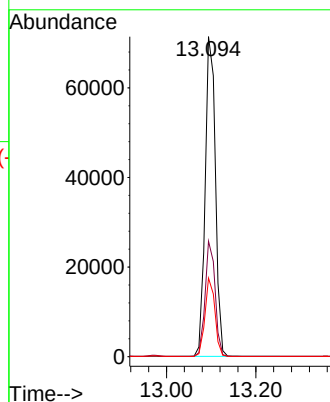
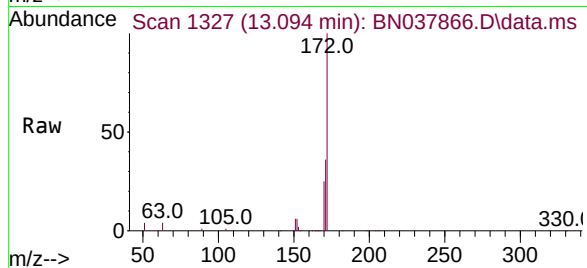
Tgt Ion:172 Resp: 113791

Ion Ratio Lower Upper

172 100

171 36.1 28.6 43.0

170 24.6 19.7 29.5



#16

Acenaphthylene

Concen: 3.437 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

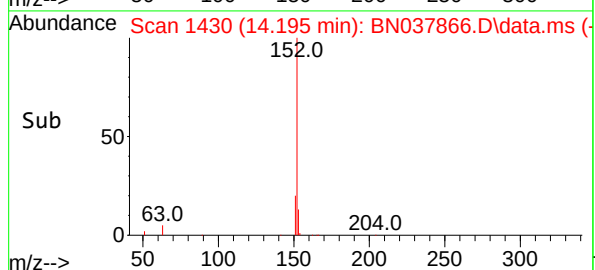
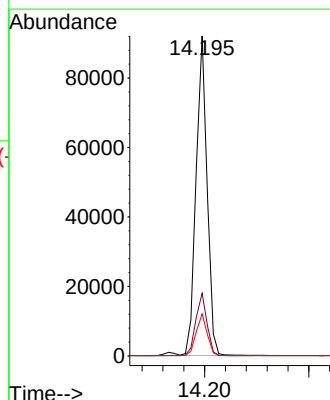
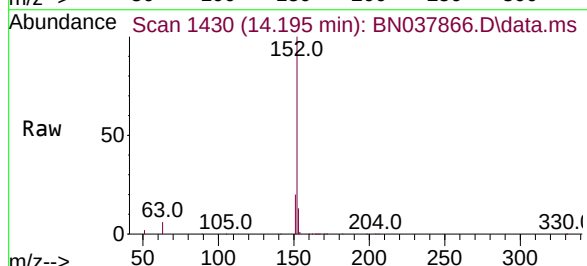
Tgt Ion:152 Resp: 134565

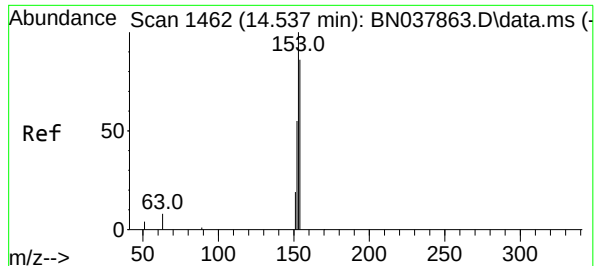
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.8

153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 3.392 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

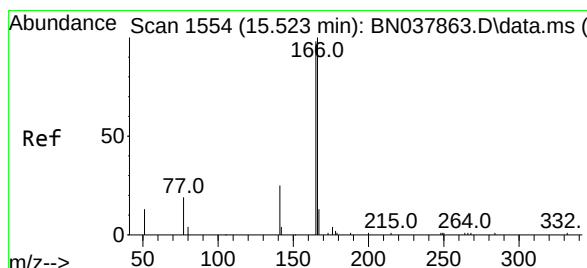
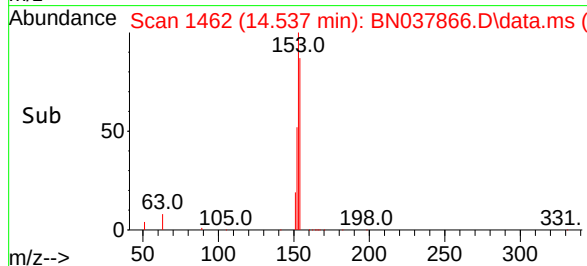
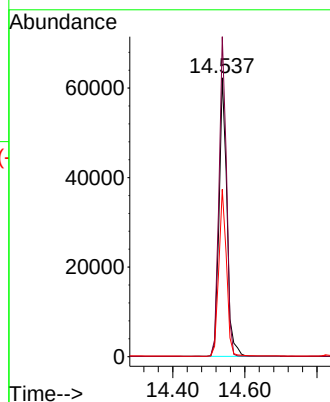
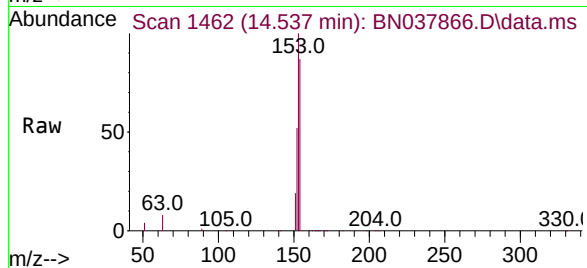
Tgt Ion:154 Resp: 94611

Ion Ratio Lower Upper

154 100

153 109.6 90.5 135.7

152 58.7 51.8 77.8



#18

Fluorene

Concen: 3.511 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

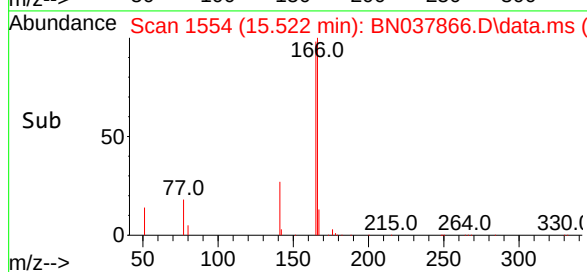
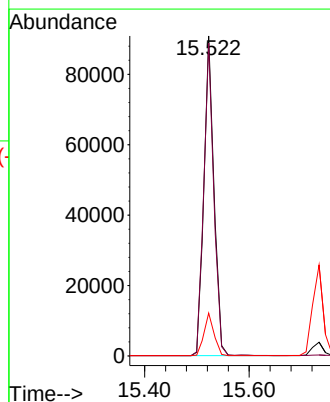
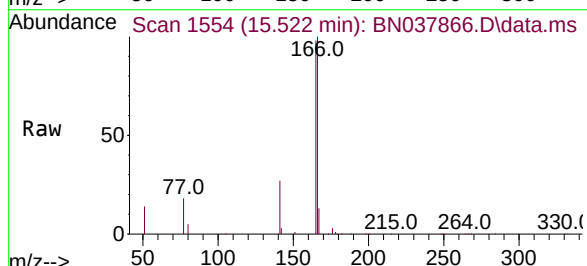
Tgt Ion:166 Resp: 118468

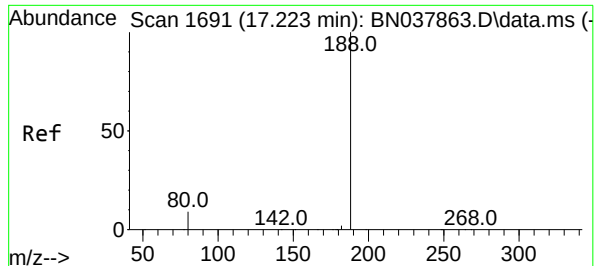
Ion Ratio Lower Upper

166 100

165 98.2 79.0 118.4

167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

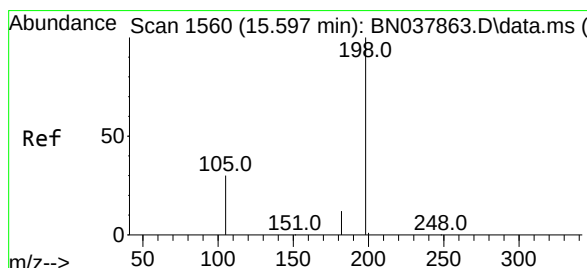
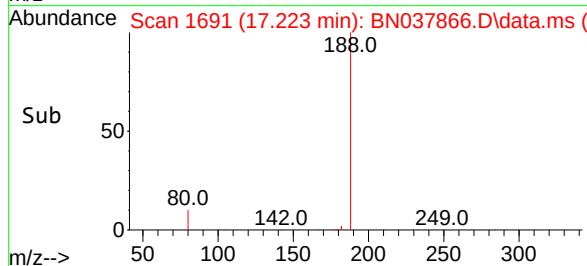
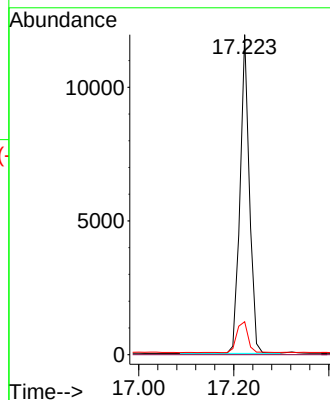
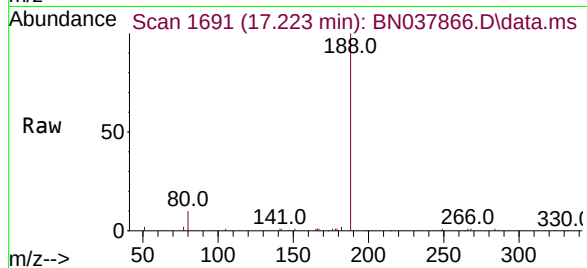
Tgt Ion:188 Resp: 16225

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.211 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

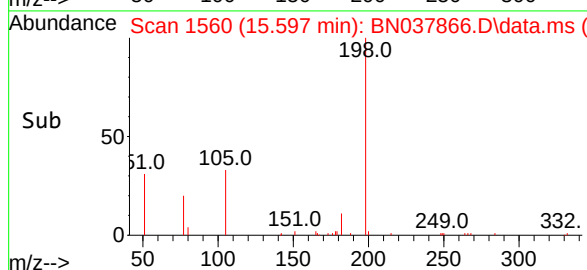
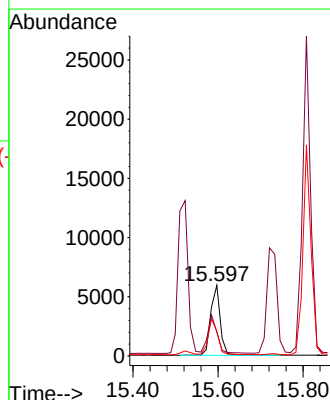
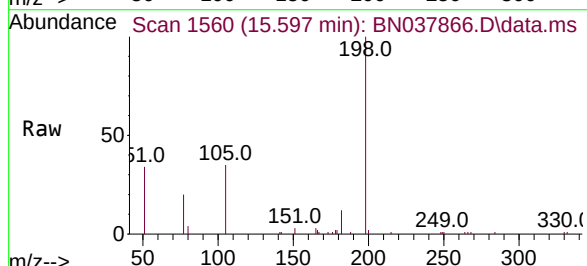
Tgt Ion:198 Resp: 9172

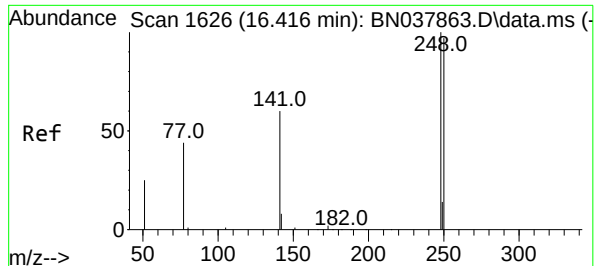
Ion Ratio Lower Upper

198 100

51 33.8 59.1 88.7#

105 34.5 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 3.370 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

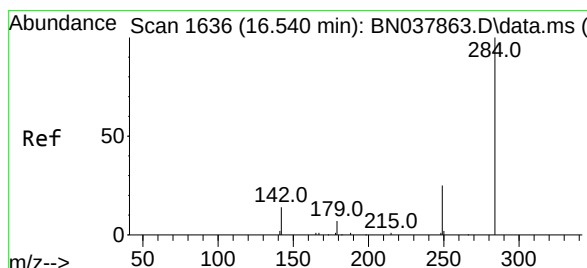
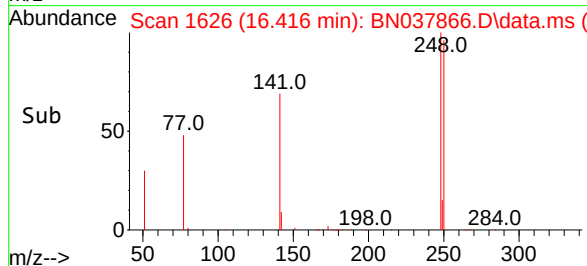
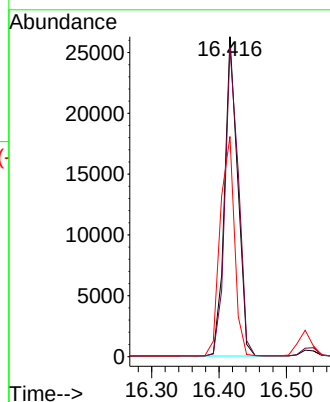
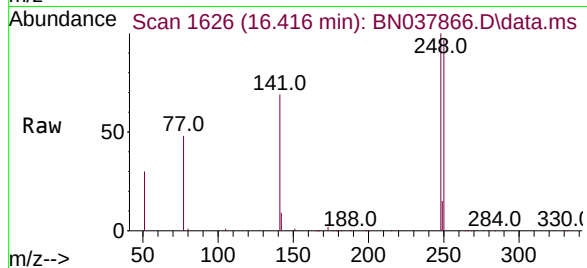
Tgt Ion:248 Resp: 35637

Ion Ratio Lower Upper

248 100

250 96.5 77.6 116.4

141 68.8 48.8 73.2



#22

Hexachlorobenzene

Concen: 3.269 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

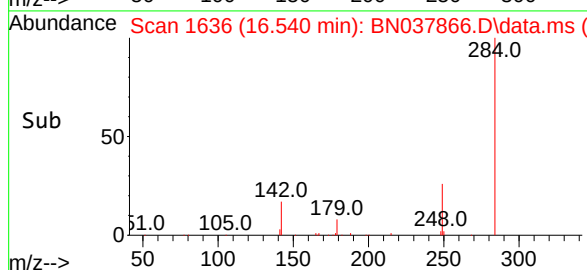
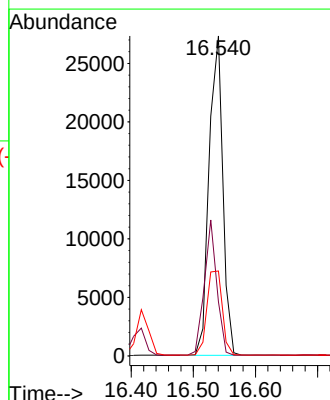
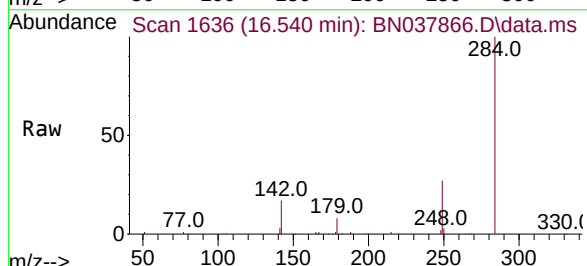
Tgt Ion:284 Resp: 41902

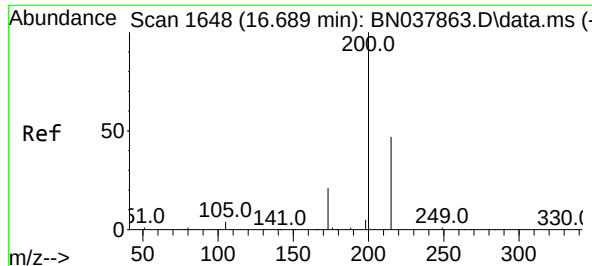
Ion Ratio Lower Upper

284 100

142 38.5 30.9 46.3

249 29.5 23.9 35.9

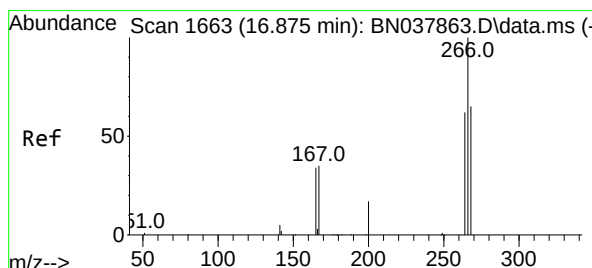
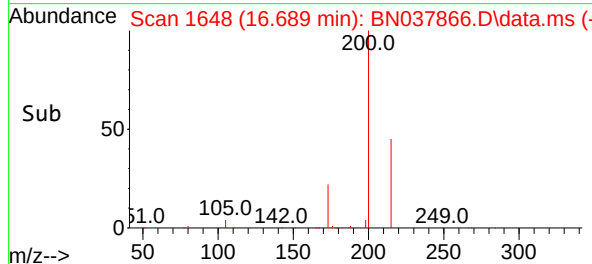
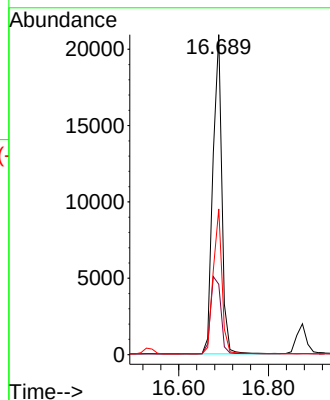
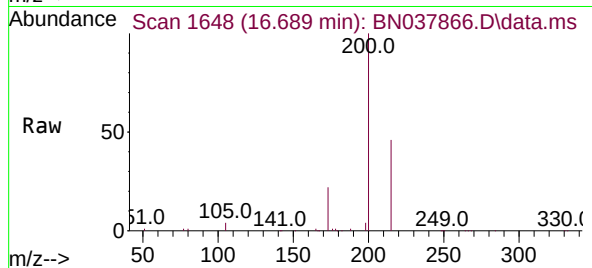




#23
Atrazine
Concen: 3.616 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

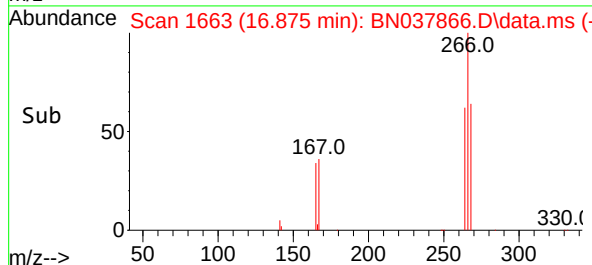
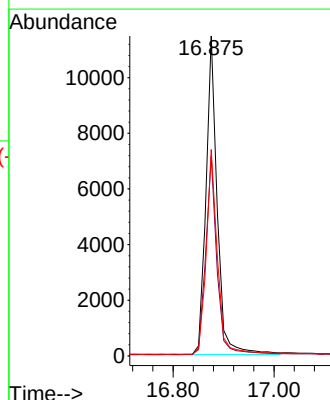
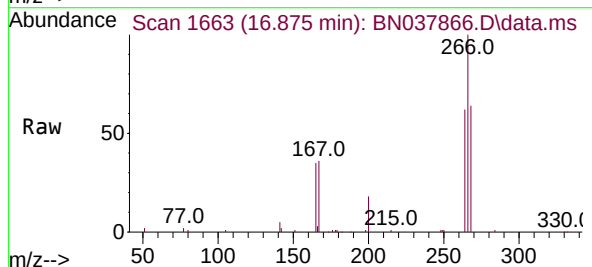
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

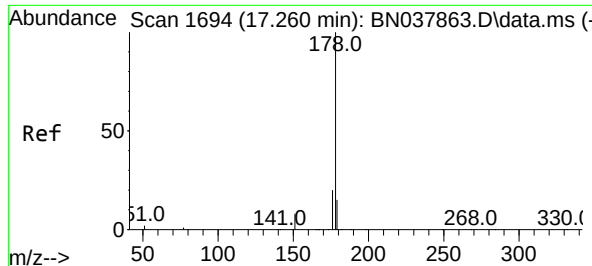
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.0	18.3	27.5
215	45.5	38.6	58.0



#24
Pentachlorophenol
Concen: 4.011 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.9	76.3
268	64.0	54.3	81.5





#25

Phenanthrene

Concen: 3.352 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

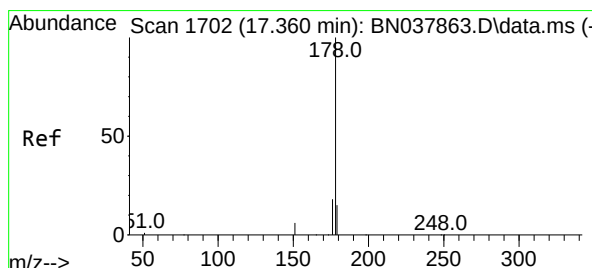
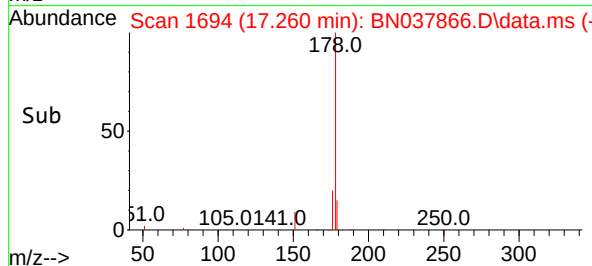
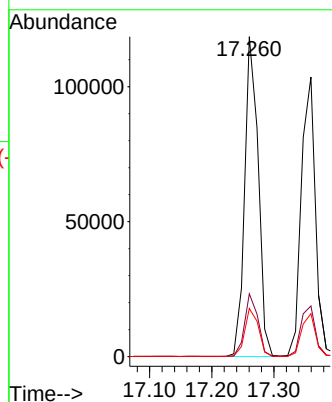
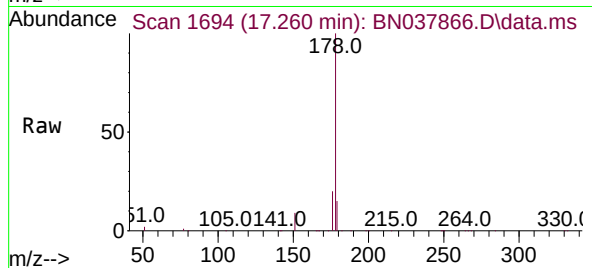
Tgt Ion:178 Resp: 178985

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 3.573 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

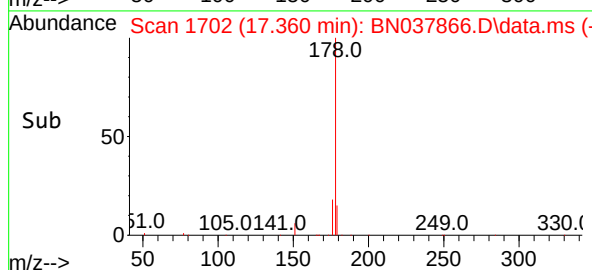
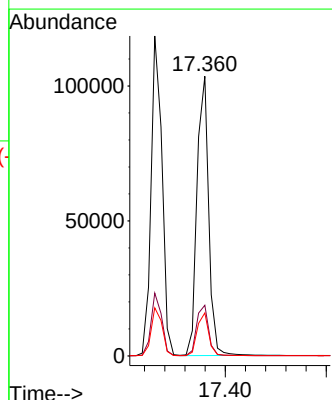
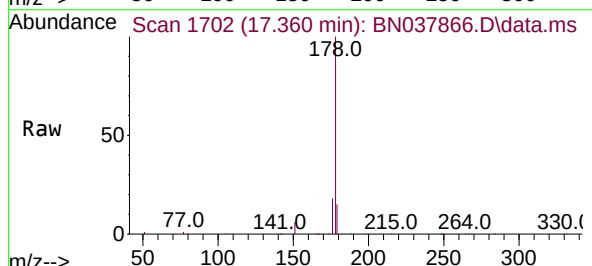
Tgt Ion:178 Resp: 165527

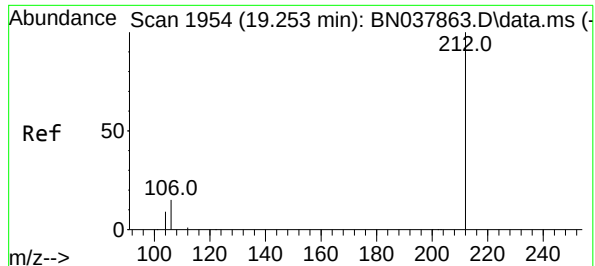
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.451 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

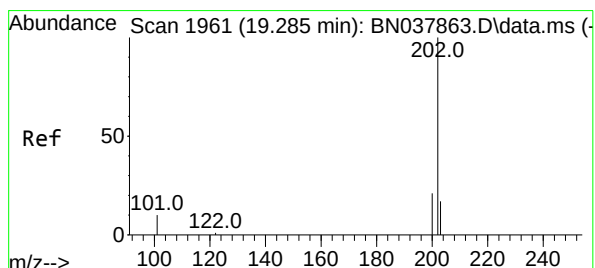
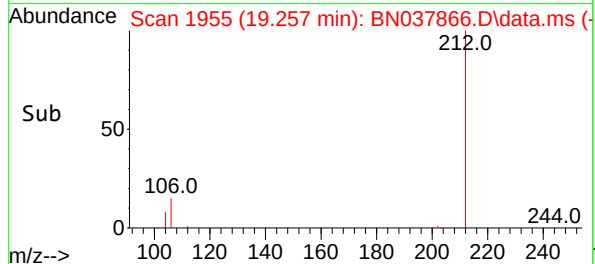
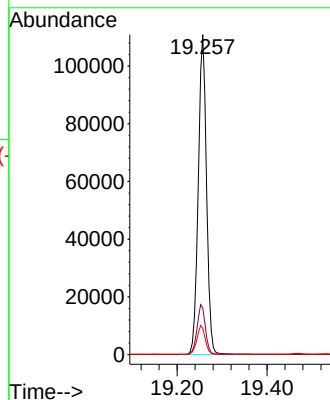
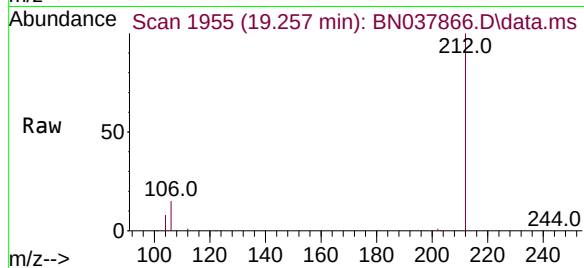
Tgt Ion:212 Resp: 140845

Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.0 7.4 11.0



#28

Fluoranthene

Concen: 3.570 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

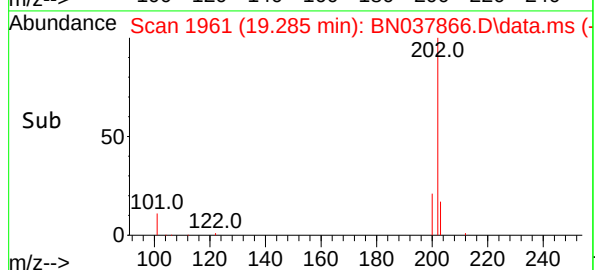
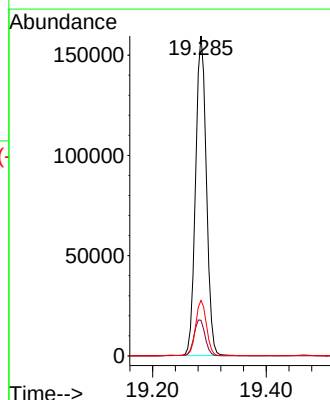
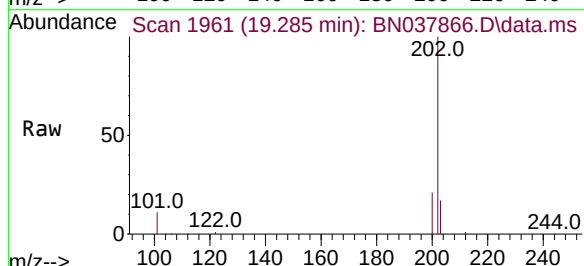
Tgt Ion:202 Resp: 209920

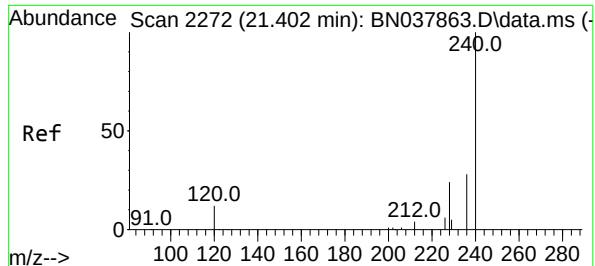
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

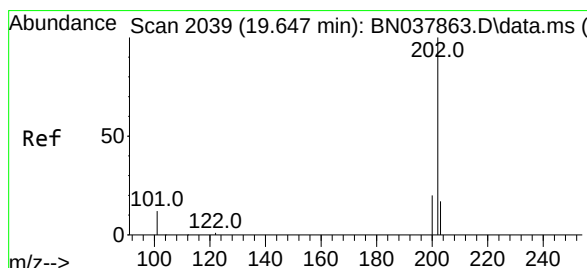
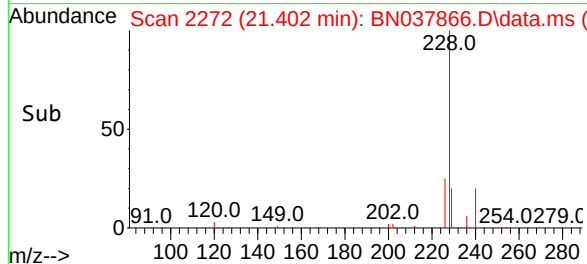
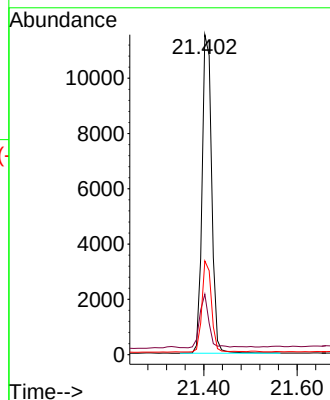
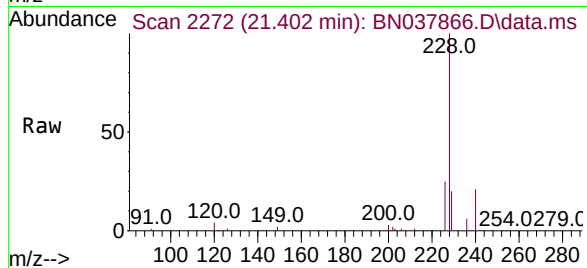
Tgt Ion:240 Resp: 16309

Ion Ratio Lower Upper

240 100

120 18.9 11.4 17.2#

236 29.3 23.0 34.6



#30

Pyrene

Concen: 3.232 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

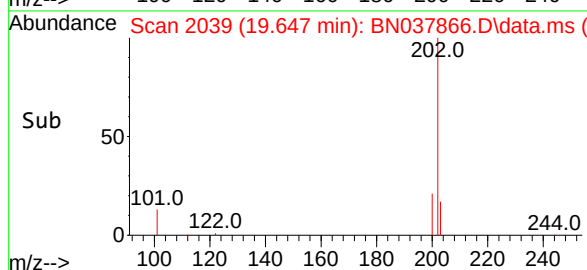
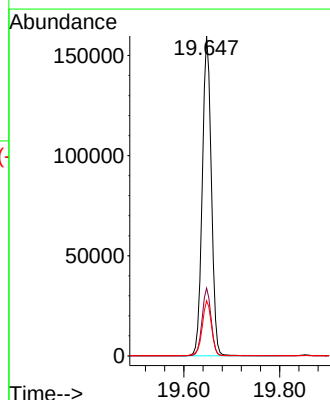
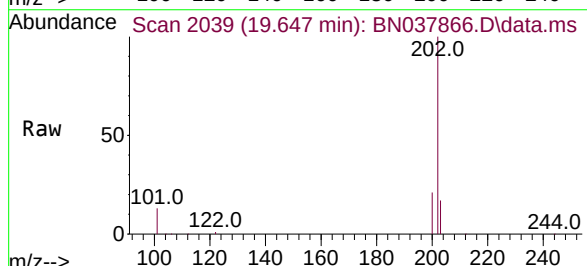
Tgt Ion:202 Resp: 208135

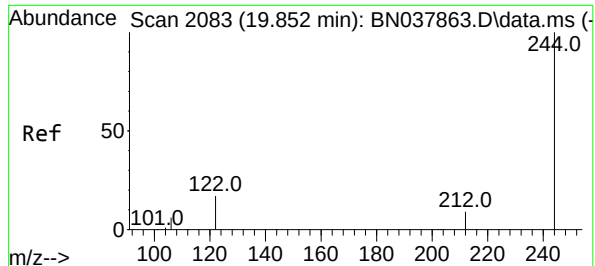
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 3.250 ng

RT: 19.852 min Scan# 2083

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

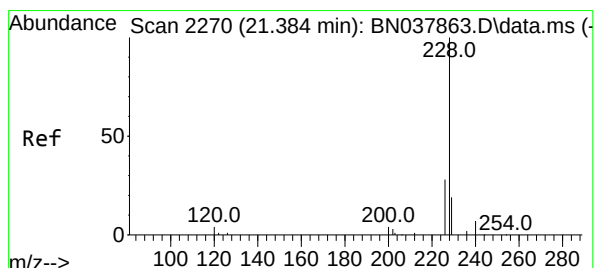
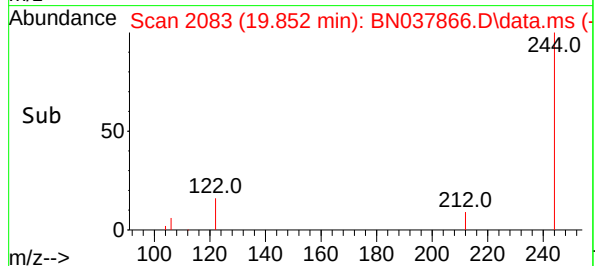
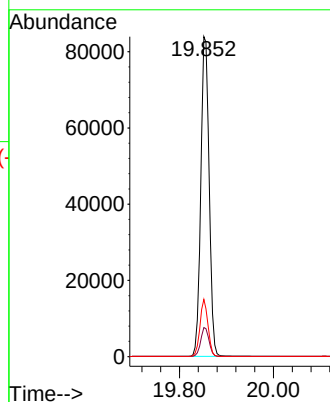
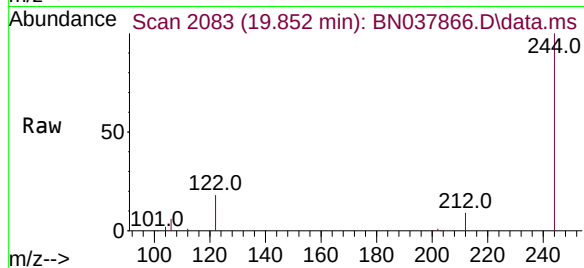
Tgt Ion:244 Resp: 105582

Ion Ratio Lower Upper

244 100

212 9.1 7.6 11.4

122 17.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 3.394 ng

RT: 21.393 min Scan# 2271

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

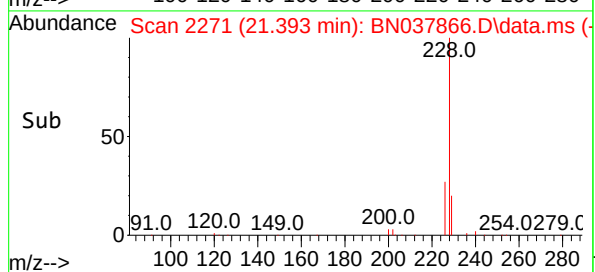
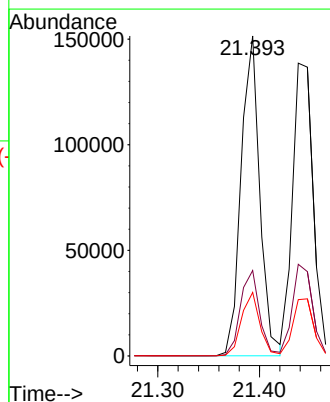
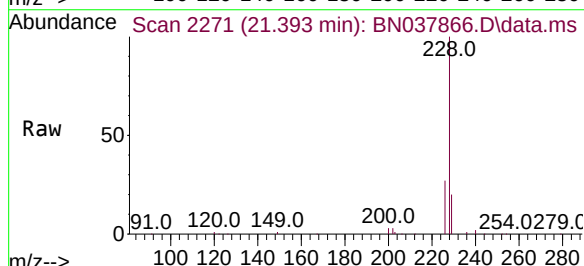
Tgt Ion:228 Resp: 193464

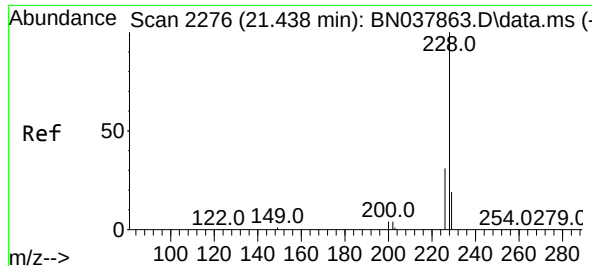
Ion Ratio Lower Upper

228 100

226 26.7 22.6 33.8

229 19.8 15.6 23.4





#33

Chrysene

Concen: 3.201 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

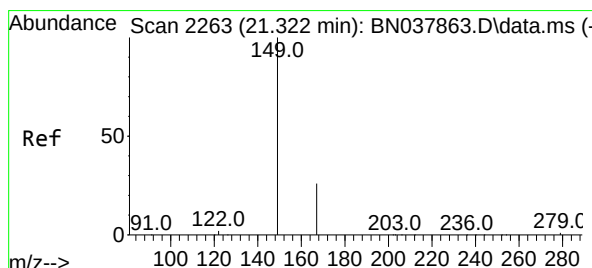
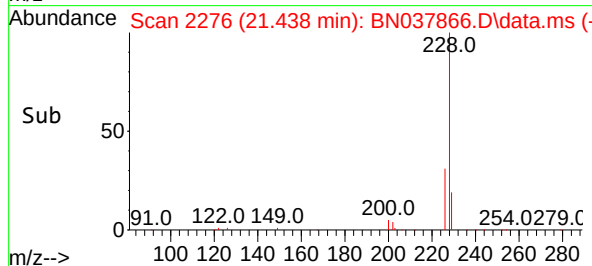
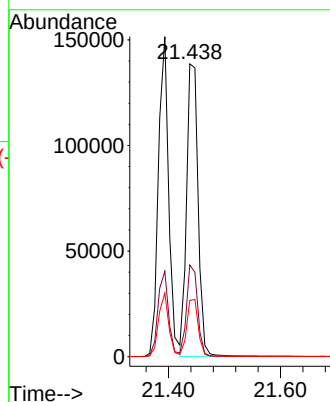
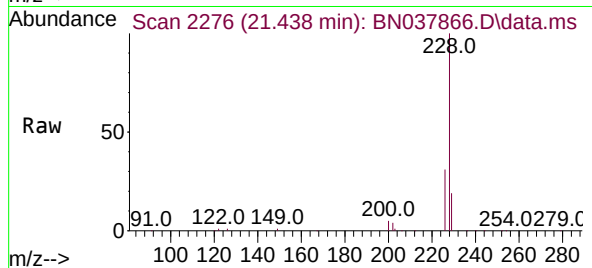
Tgt Ion:228 Resp: 197283

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.291 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

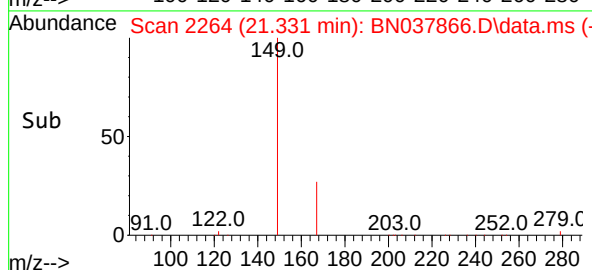
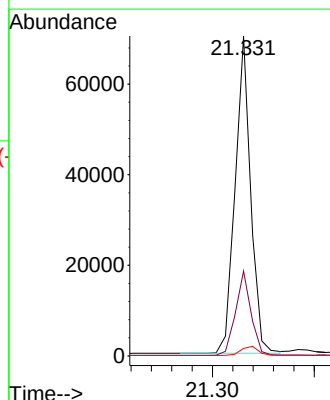
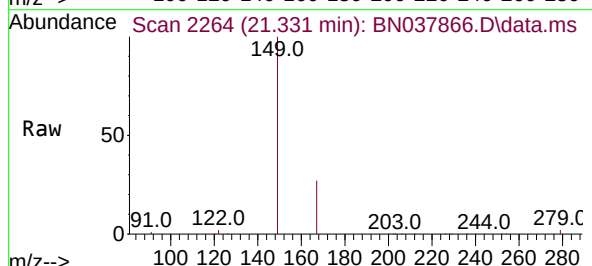
Tgt Ion:149 Resp: 74195

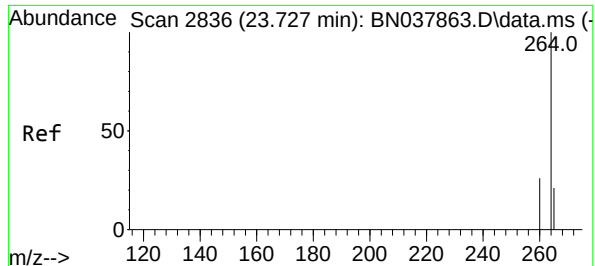
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037866.D

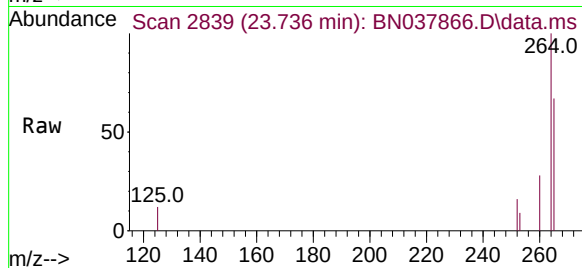
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



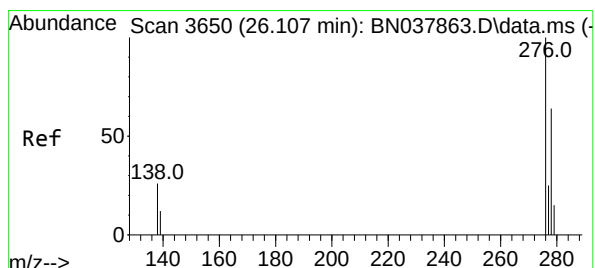
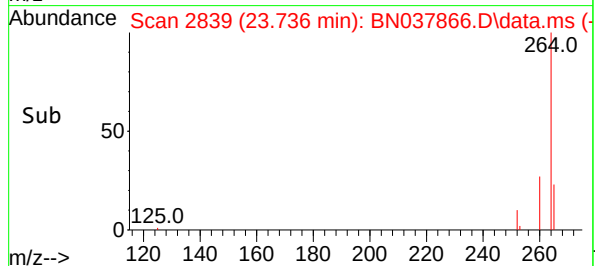
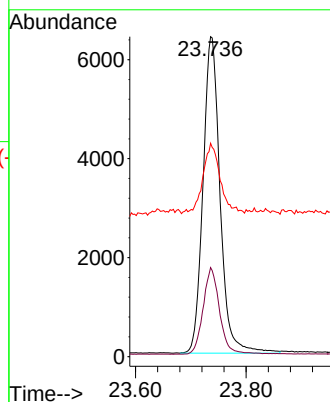
Tgt Ion:264 Resp: 13684

Ion Ratio Lower Upper

264 100

260 27.8 21.5 32.3

265 66.7 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.494 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.012 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

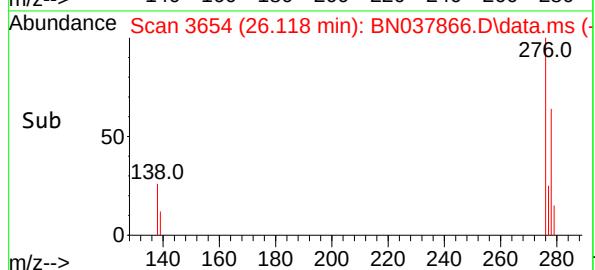
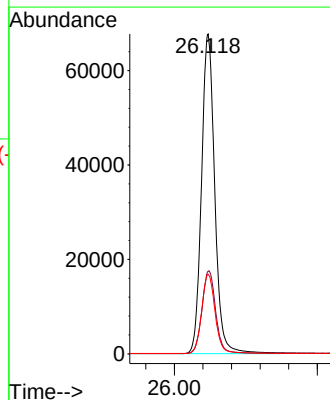
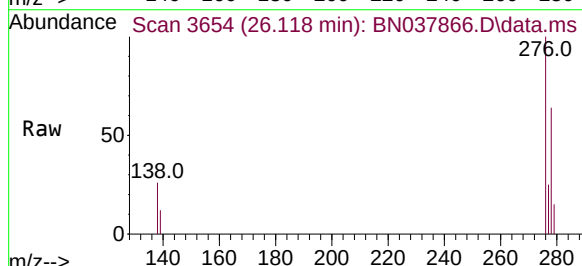
Tgt Ion:276 Resp: 218487

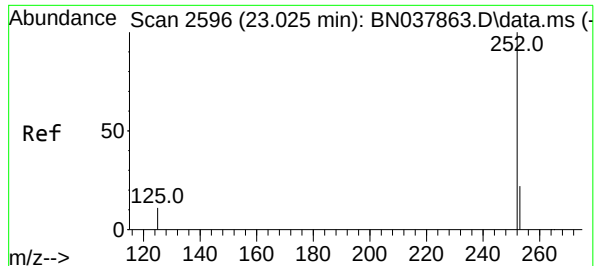
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 3.428 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

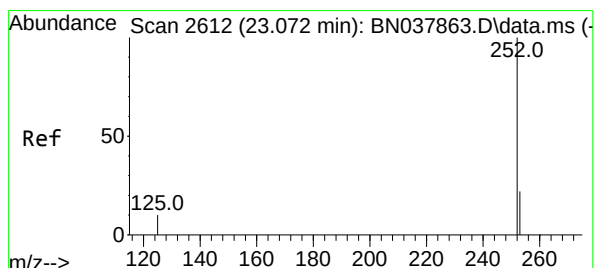
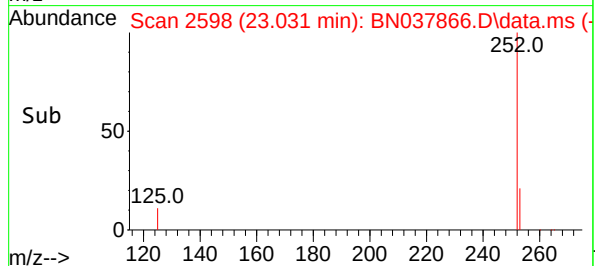
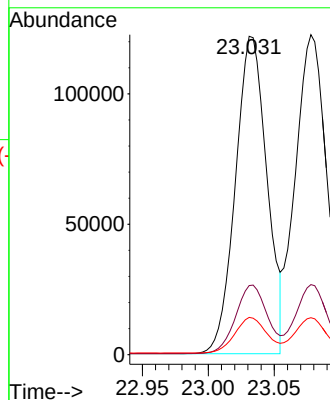
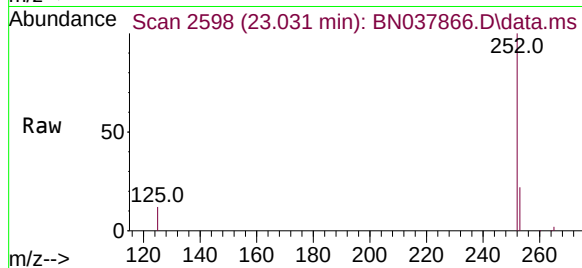
Tgt Ion:252 Resp: 202282

Ion Ratio Lower Upper

252 100

253 21.7 19.4 29.0

125 11.7 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 3.534 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

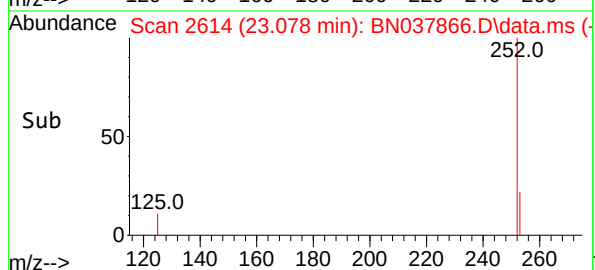
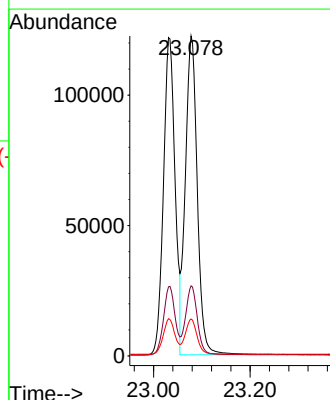
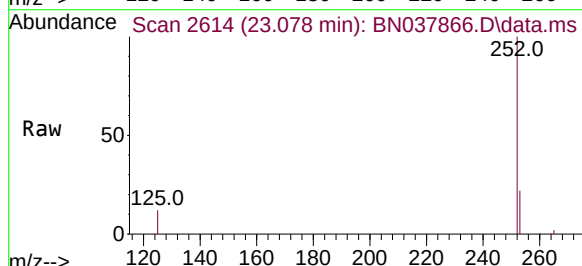
Tgt Ion:252 Resp: 209819

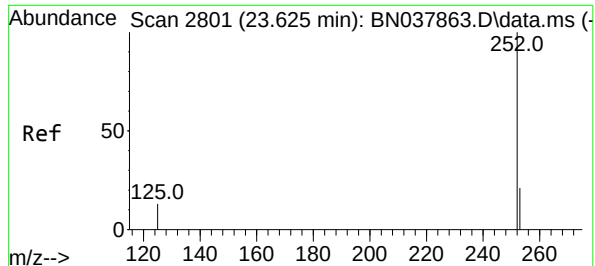
Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 11.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.499 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

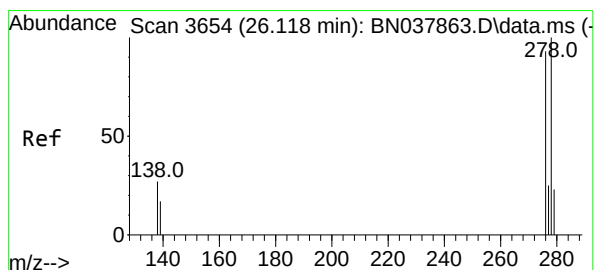
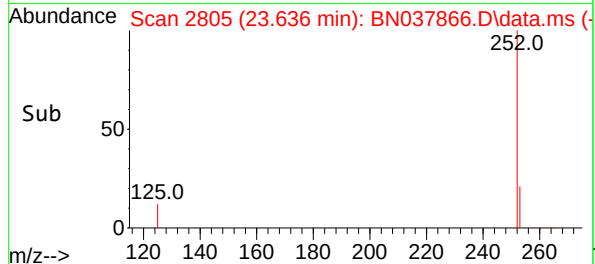
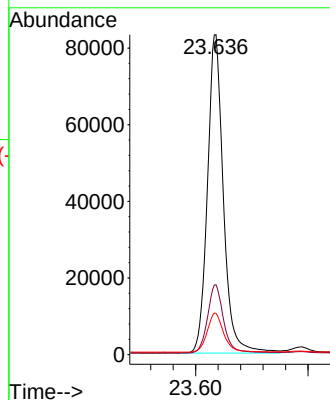
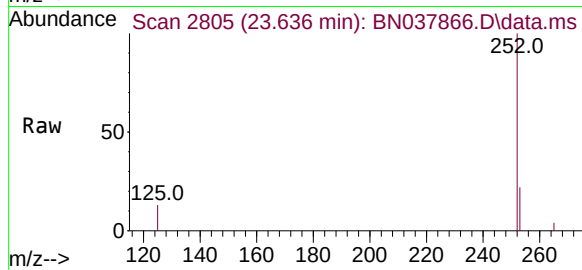
Tgt Ion:252 Resp: 163321

Ion Ratio Lower Upper

252 100

253 21.8 20.6 30.8

125 12.9 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.558 ng

RT: 26.133 min Scan# 3659

Delta R.T. 0.015 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

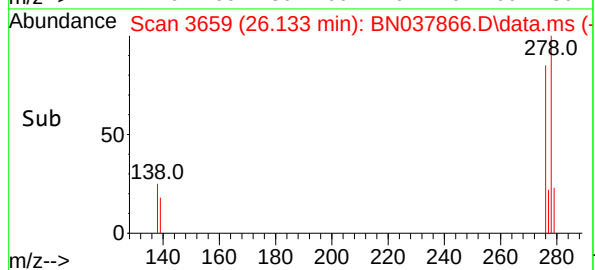
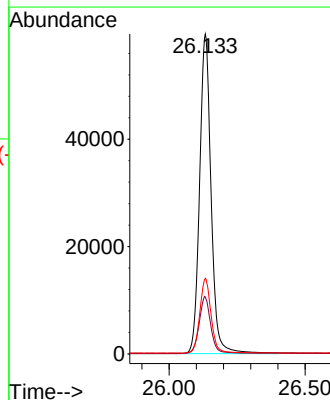
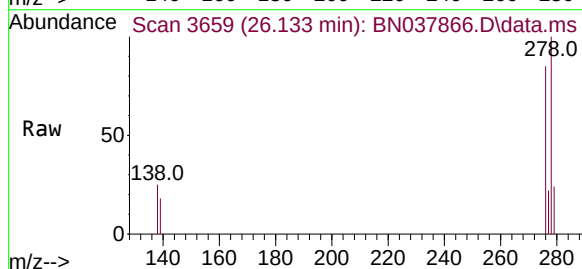
Tgt Ion:278 Resp: 173724

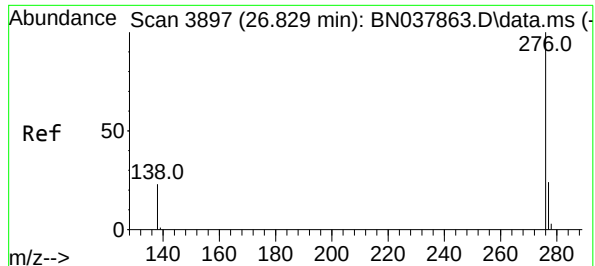
Ion Ratio Lower Upper

278 100

139 17.8 15.4 23.2

279 23.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 3.443 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037866.D

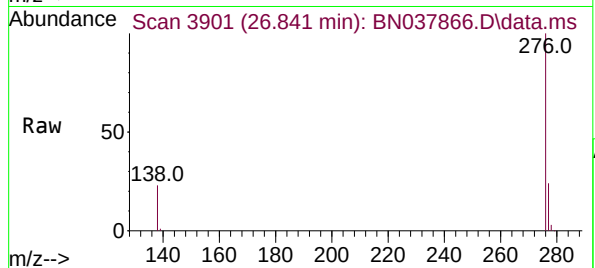
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



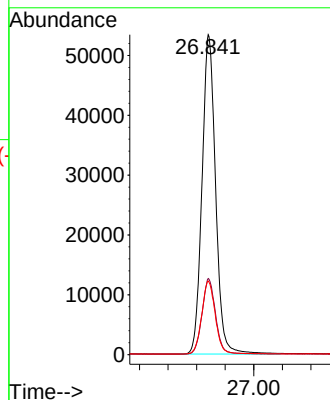
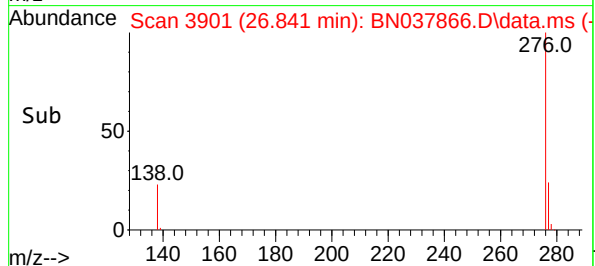
Tgt Ion:276 Resp: 176617

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037867.D
 Acq On : 23 Sep 2025 15:51
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

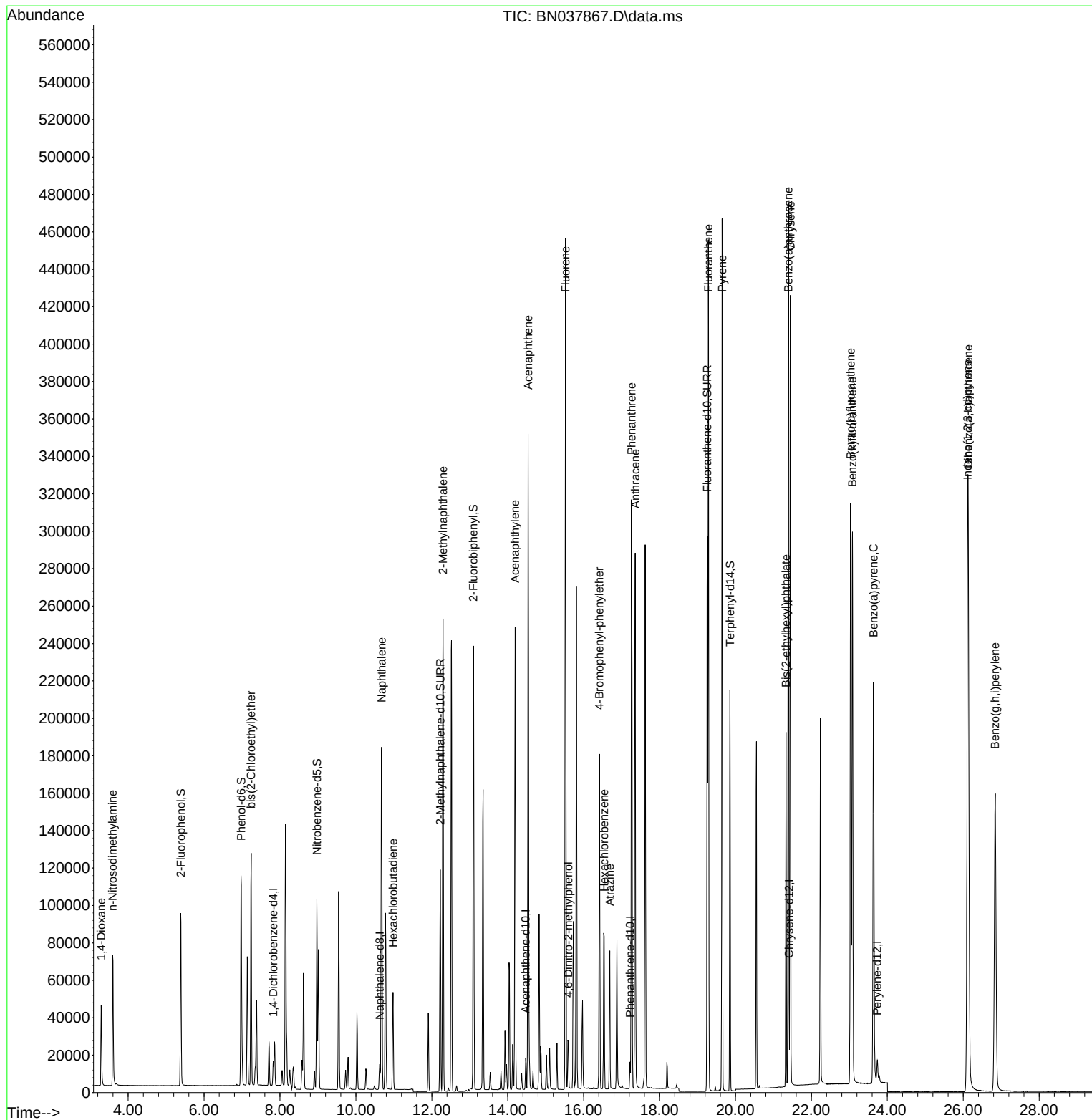
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng	0.00
29) Chrysene-d12	21.411	240	18531	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	15649	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	75850	5.467	ng	0.00
5) Phenol-d6	6.980	99	102802	5.639	ng	0.00
8) Nitrobenzene-d5	8.971	82	73146	5.543	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	154332	6.422	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.094	172	210748	5.379	ng	0.00
27) Fluoranthene-d10	19.257	212	307332	6.807	ng	0.00
31) Terphenyl-d14	19.856	244	206917	5.606	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.290	88	28576	4.630	ng	98
3) n-Nitrosodimethylamine	3.593	42	41574	5.063	ng	# 92
6) bis(2-Chloroethyl)ether	7.240	93	86881	5.134	ng	99
9) Naphthalene	10.680	128	250883	5.264	ng	98
10) Hexachlorobutadiene	10.979	225	40670	5.003	ng	# 100
12) 2-Methylnaphthalene	12.293	142	173335	5.567	ng	99
16) Acenaphthylene	14.195	152	250496	5.765	ng	100
17) Acenaphthene	14.537	154	171955	5.554	ng	94
18) Fluorene	15.522	166	209070	5.583	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	18771	4.997	ng	# 59
21) 4-Bromophenyl-phenylether	16.416	248	65230	5.577	ng	92
22) Hexachlorobenzene	16.540	284	74475	5.252	ng	99
23) Atrazine	16.689	200	55972	6.284	ng	96
25) Phenanthrene	17.260	178	325691	5.514	ng	99
26) Anthracene	17.359	178	305295	5.958	ng	100
28) Fluoranthene	19.285	202	384292	5.908	ng	99
30) Pyrene	19.647	202	388849	5.315	ng	100
32) Benzo(a)anthracene	21.393	228	362927	5.604	ng	98
33) Chrysene	21.447	228	363421	5.189	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	156492	6.109	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	422337	5.906	ng	99
37) Benzo(b)fluoranthene	23.034	252	387512	5.742	ng	# 93
38) Benzo(k)fluoranthene	23.081	252	376732	5.548	ng	# 92
39) Benzo(a)pyrene	23.636	252	314913	5.900	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	333427	5.971	ng	96
41) Benzo(g,h,i)perylene	26.840	276	346868	5.913	ng	96

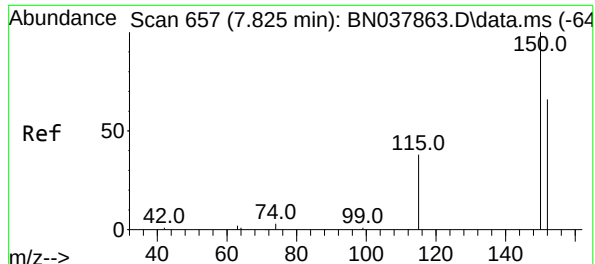
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037867.D
Acq On : 23 Sep 2025 15:51
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

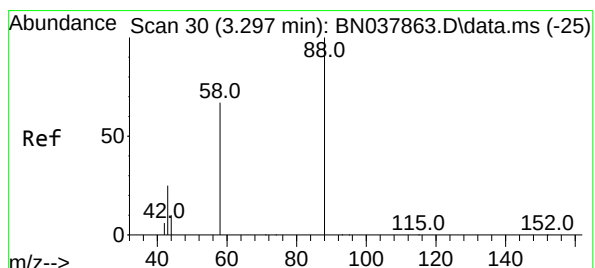
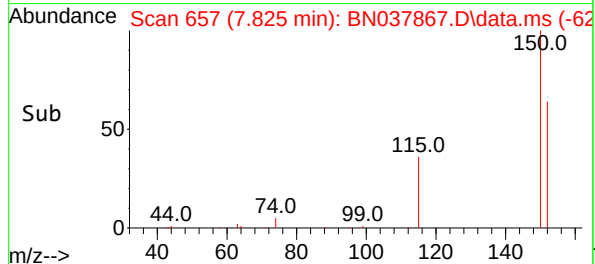
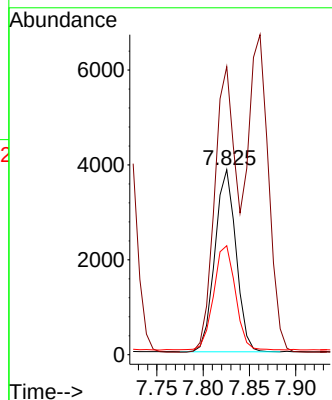
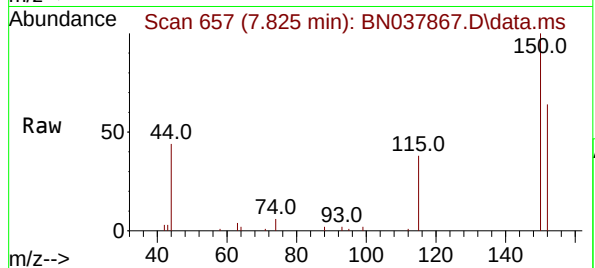




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

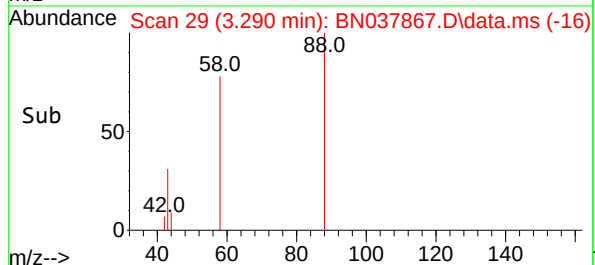
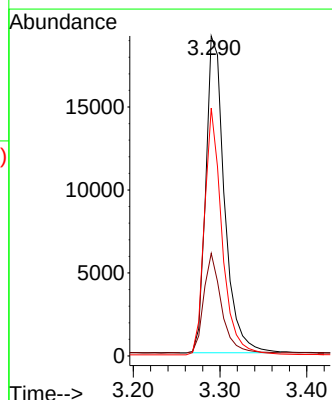
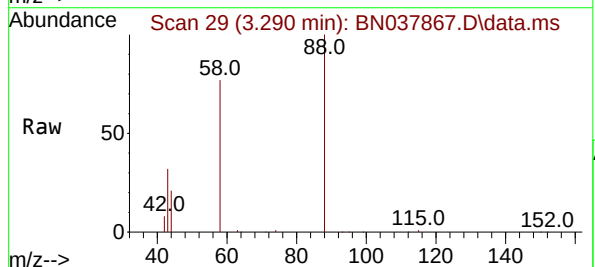
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

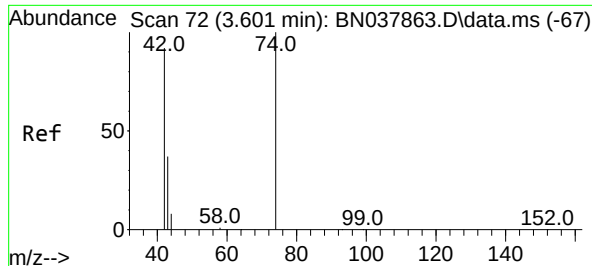
Tgt Ion:152 Resp: 6080
Ion Ratio Lower Upper
152 100
150 155.7 121.0 181.4
115 58.9 47.4 71.0



#2
1,4-Dioxane
Concen: 4.630 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 88 Resp: 28576
Ion Ratio Lower Upper
88 100
43 29.8 26.6 39.8
58 73.3 58.9 88.3

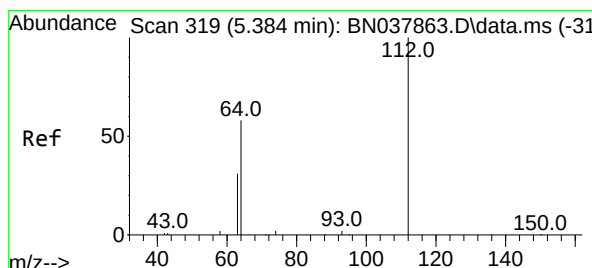
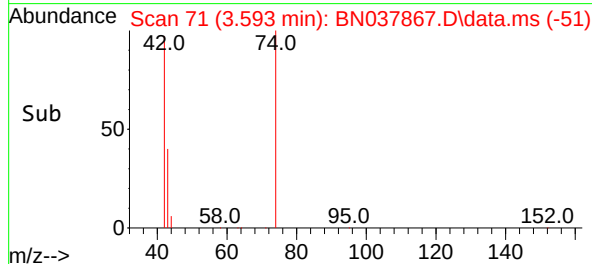
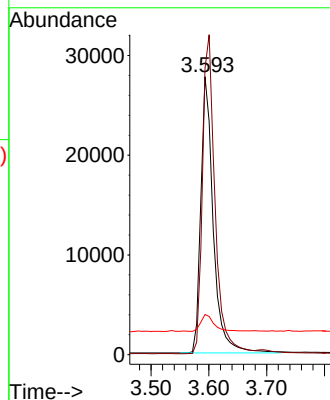
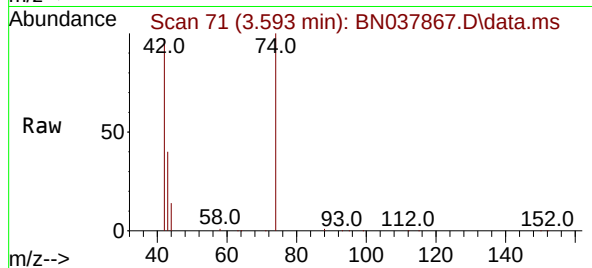




#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

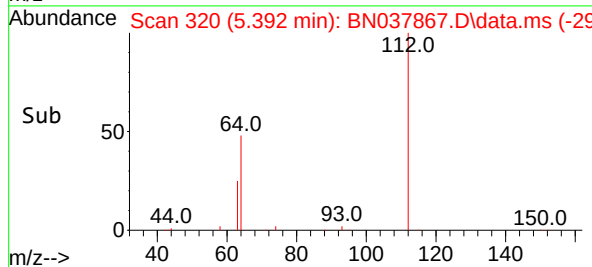
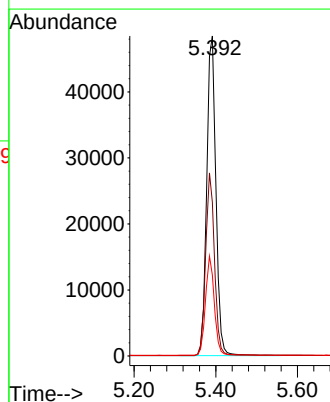
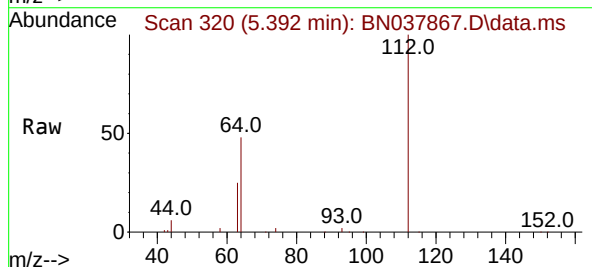
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

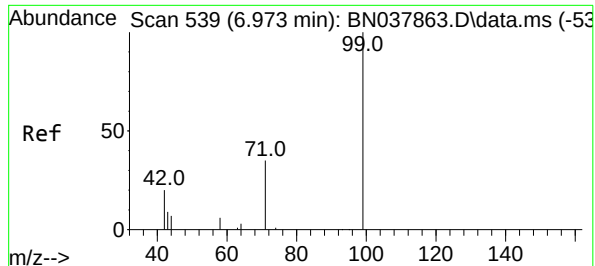
Tgt Ion: 42 Resp: 41574
Ion Ratio Lower Upper
42 100
74 117.0 93.4 140.0
44 6.5 22.2 33.4#



#4
2-Fluorophenol
Concen: 5.467 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 112 Resp: 75850
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 29.7 24.9 37.3





#5

Phenol-d6

Concen: 5.639 ng

RT: 6.980 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

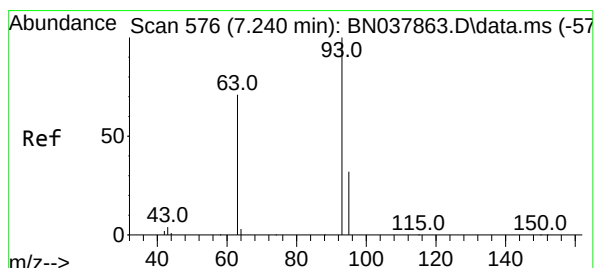
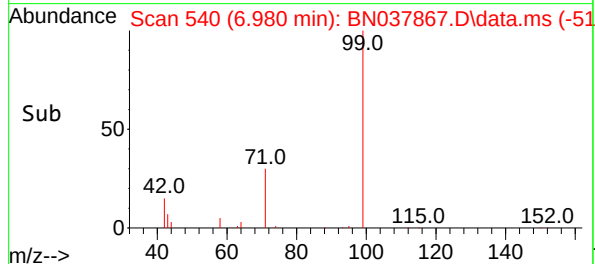
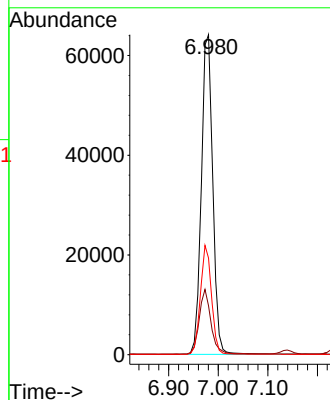
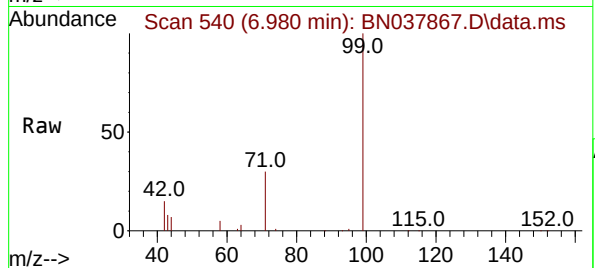
Tgt Ion: 99 Resp: 102802

Ion Ratio Lower Upper

99 100

42 20.6 17.2 25.8

71 33.3 27.3 40.9



#6

bis(2-Chloroethyl)ether

Concen: 5.134 ng

RT: 7.240 min Scan# 576

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

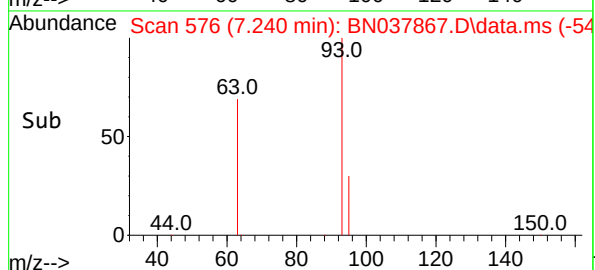
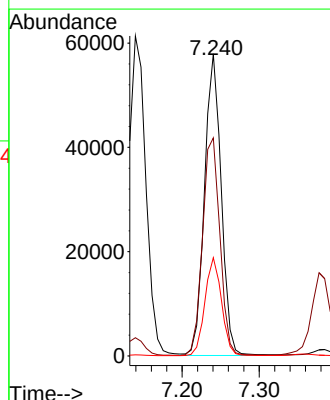
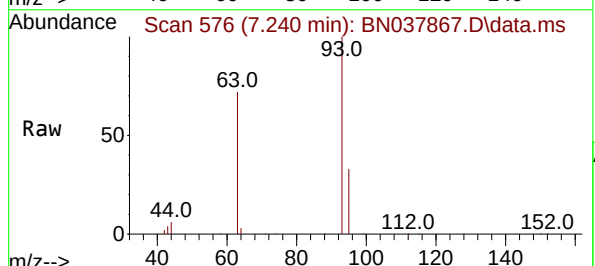
Tgt Ion: 93 Resp: 86881

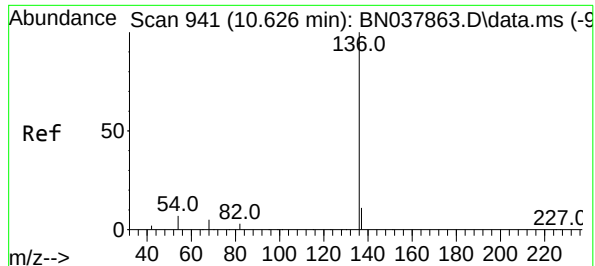
Ion Ratio Lower Upper

93 100

63 74.6 60.1 90.1

95 32.2 25.4 38.2

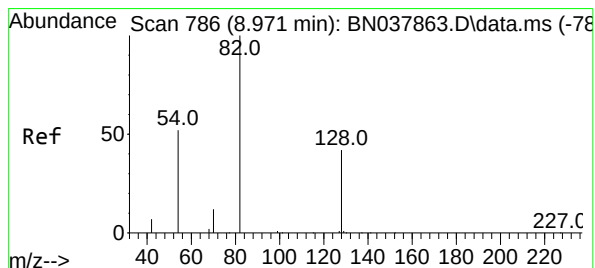
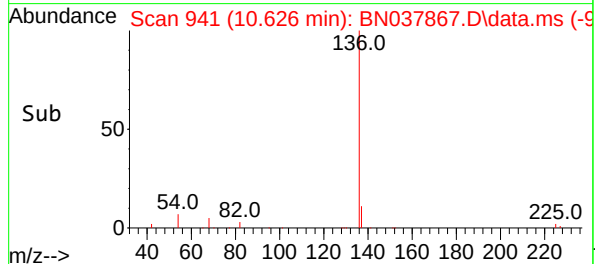
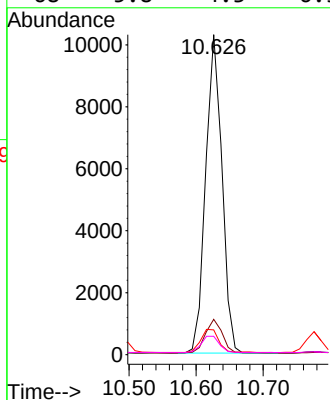
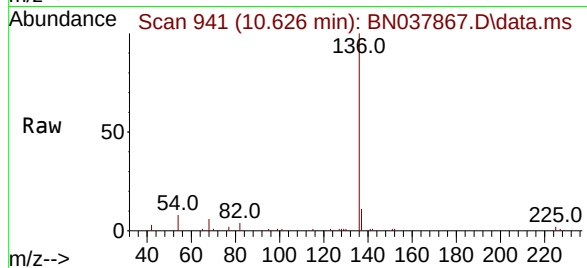




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

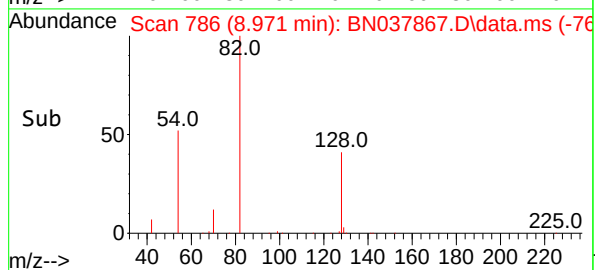
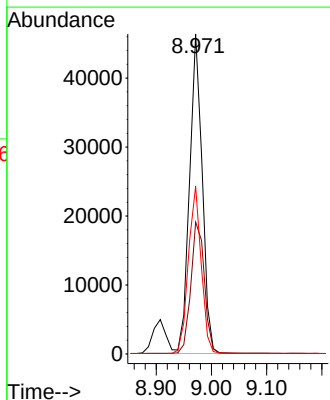
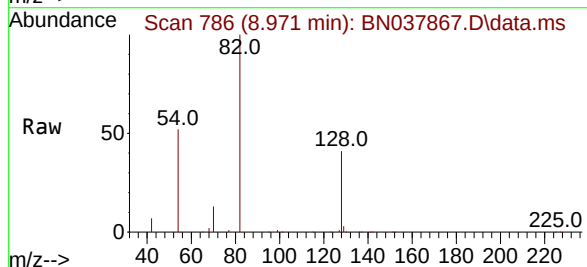
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

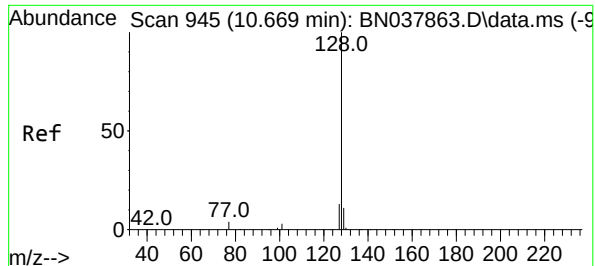
Tgt Ion:	136	Resp:	17301
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 5.543 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:	82	Resp:	73146
Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.8	52.2
54	52.4	42.2	63.2

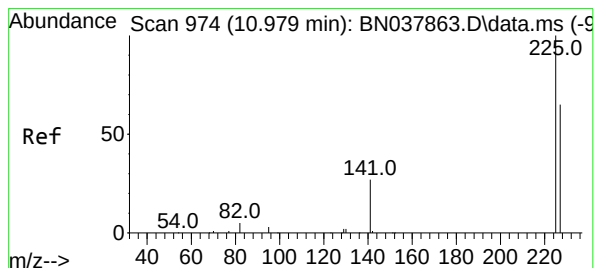
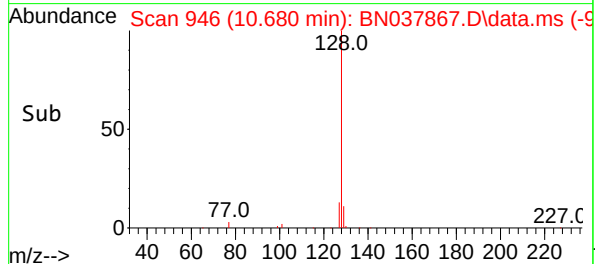
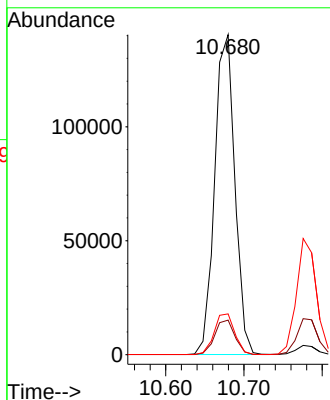
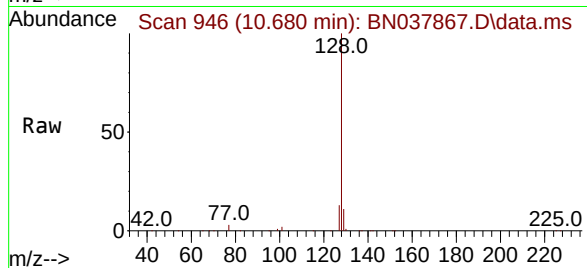




#9
Naphthalene
Concen: 5.264 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

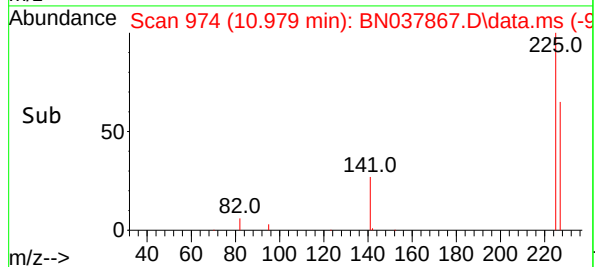
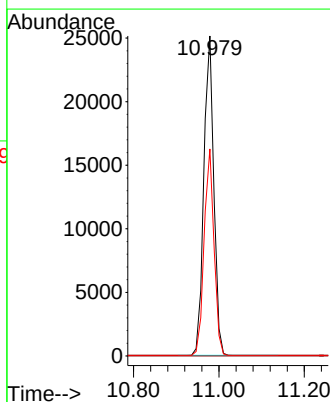
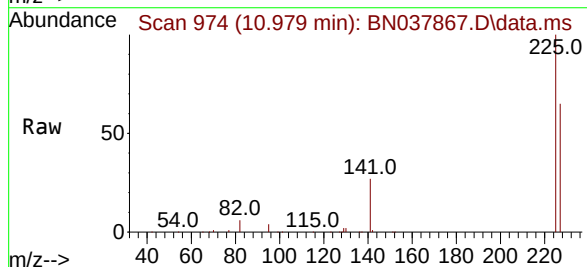
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

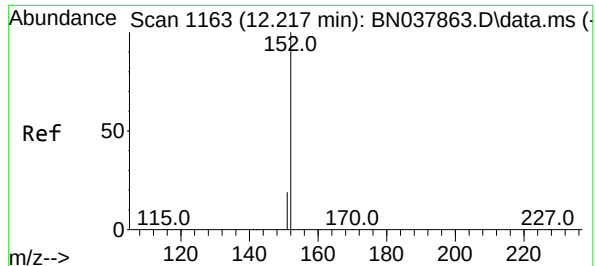
Tgt Ion:128 Resp: 250883
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 12.8 11.0 16.6



#10
Hexachlorobutadiene
Concen: 5.003 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:225 Resp: 40670
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.4 77.2

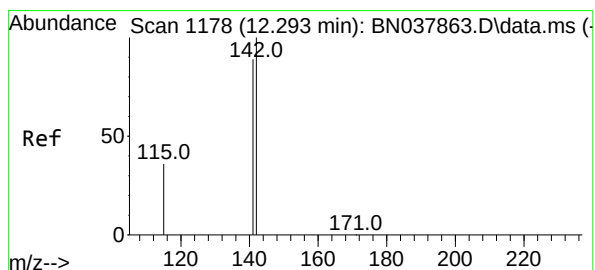
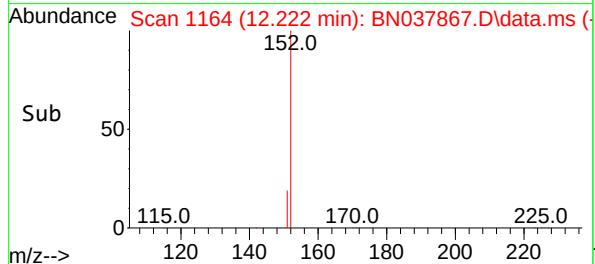
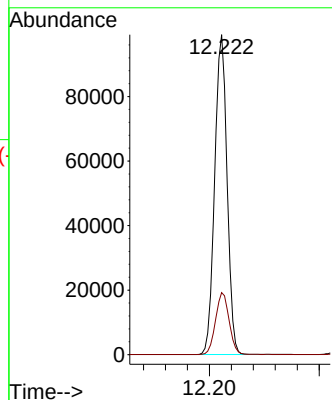
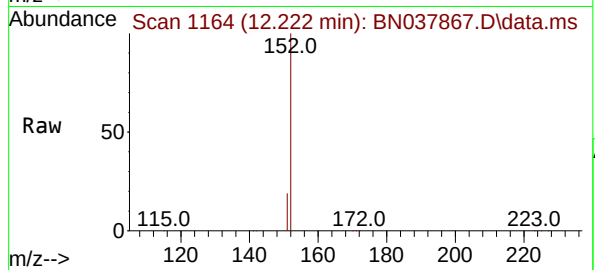




#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

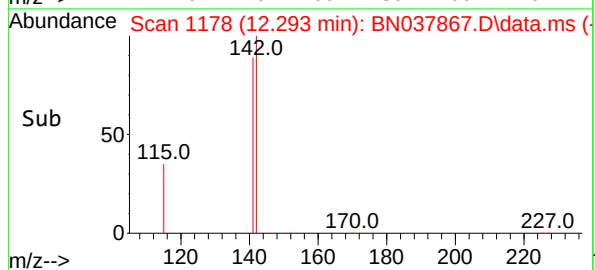
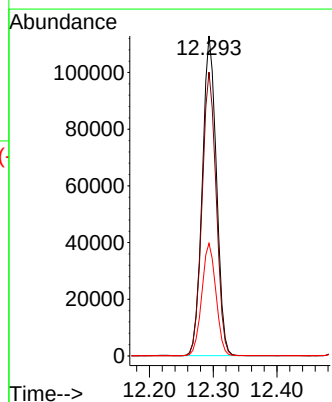
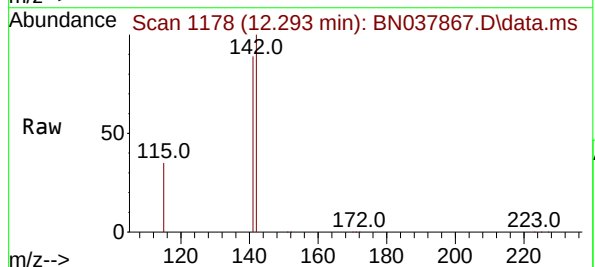
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

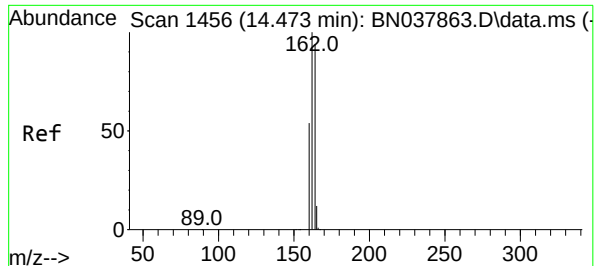
Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.567 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:142 Resp: 173335
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8
115 35.2 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037867.D

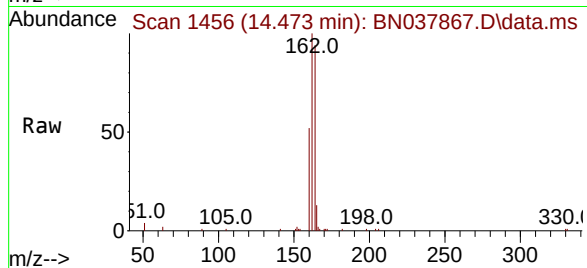
Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



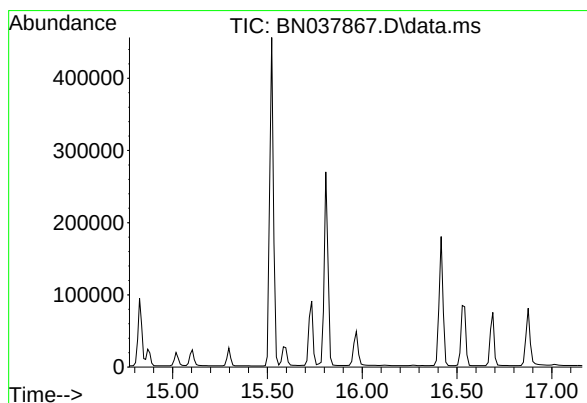
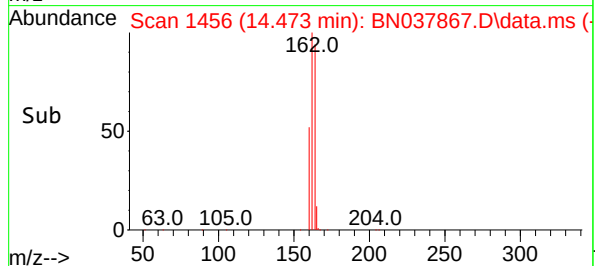
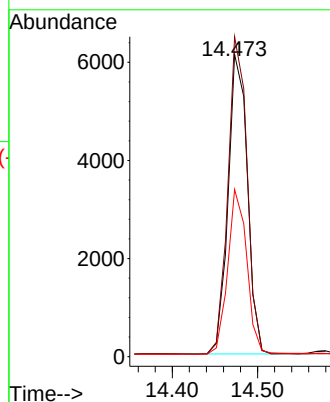
Tgt Ion:164 Resp: 9570

Ion Ratio Lower Upper

164 100

162 105.9 84.8 127.2

160 55.3 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 15.97 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

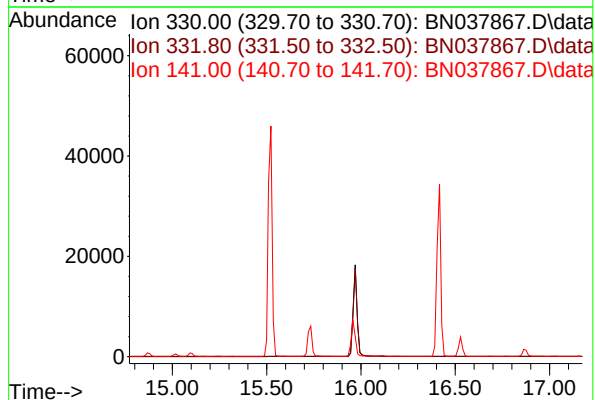
Tgt Ion: 330

Sig Exp Ratio

330 100

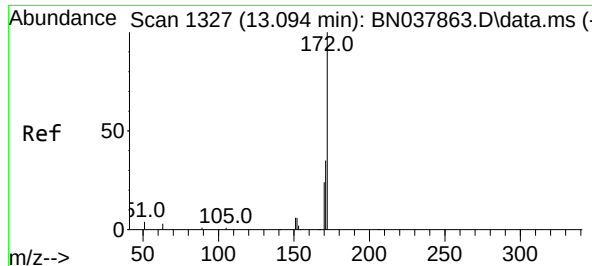
332 96.5

141 46.5



Ion 331.80 (331.50 to 332.50): BN037867.D\data.ms

Ion 141.00 (140.70 to 141.70): BN037867.D\data.ms



#15

2-Fluorobiphenyl

Concen: 5.379 ng

RT: 13.094 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

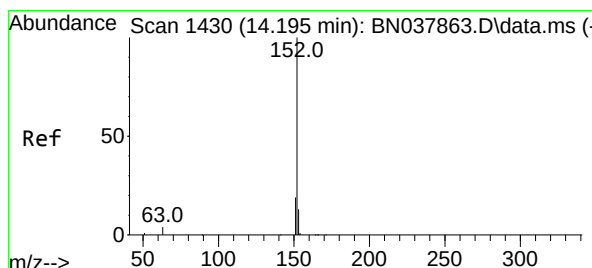
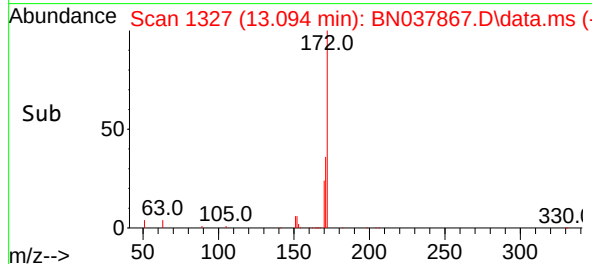
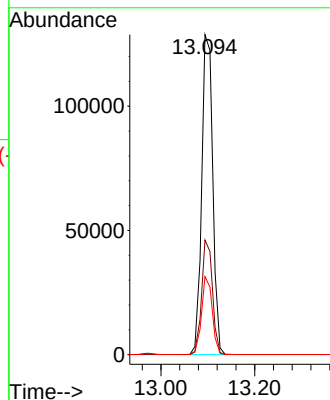
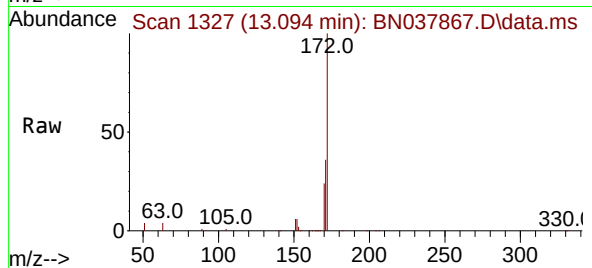
Tgt Ion:172 Resp: 210748

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.4 19.7 29.5



#16

Acenaphthylene

Concen: 5.765 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

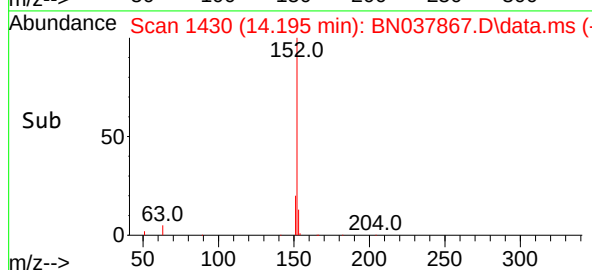
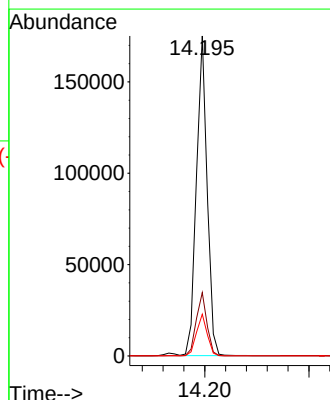
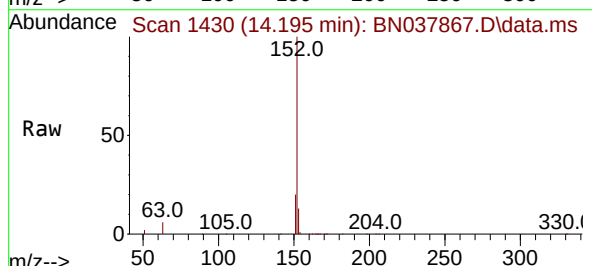
Tgt Ion:152 Resp: 250496

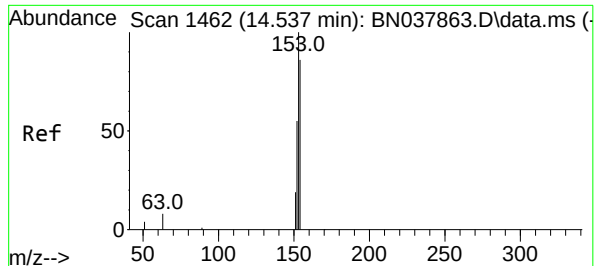
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7

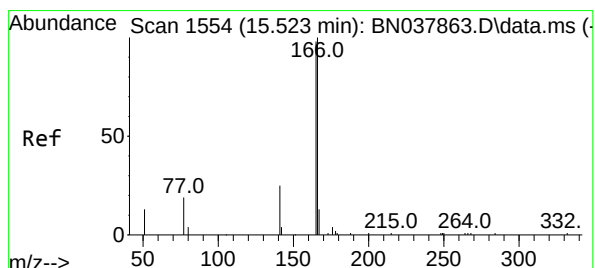
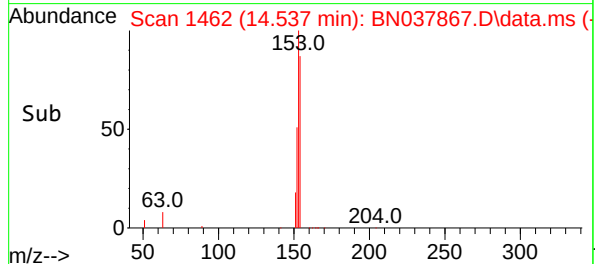
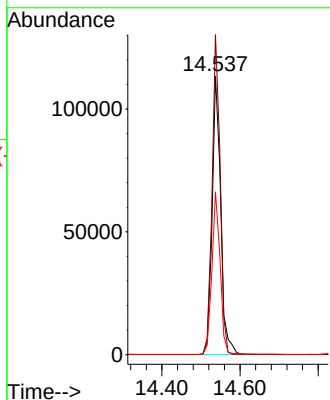
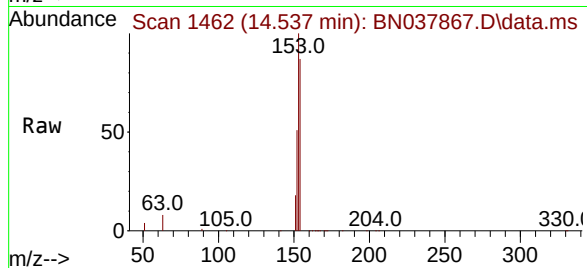




#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

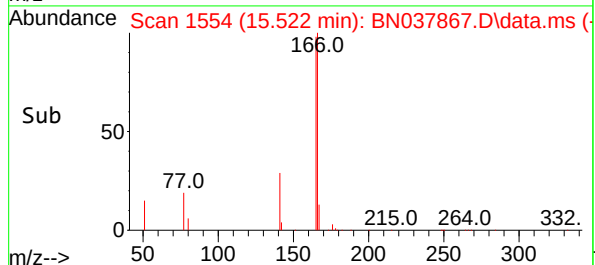
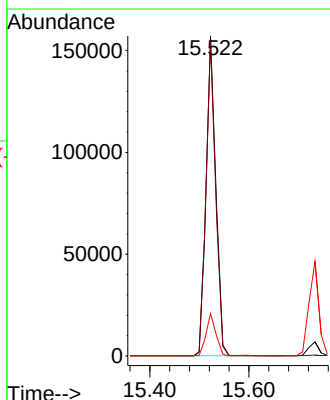
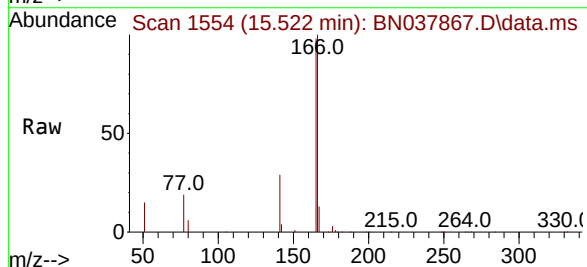
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

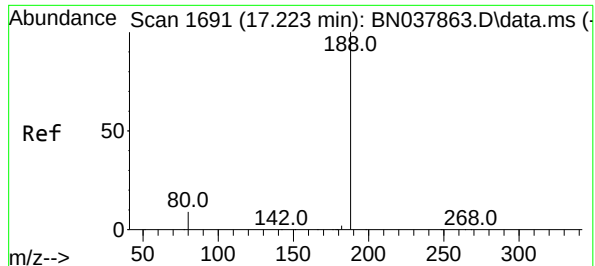
Tgt Ion:154 Resp: 171955
Ion Ratio Lower Upper
154 100
153 108.8 90.5 135.7
152 56.5 51.8 77.8



#18
Fluorene
Concen: 5.583 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:166 Resp: 209070
Ion Ratio Lower Upper
166 100
165 95.7 79.0 118.4
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

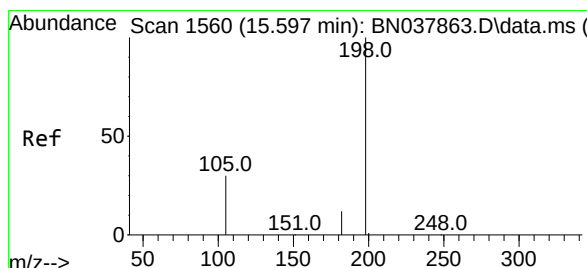
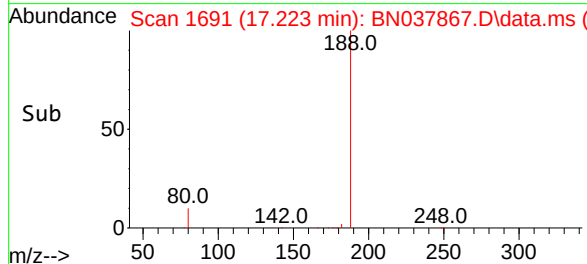
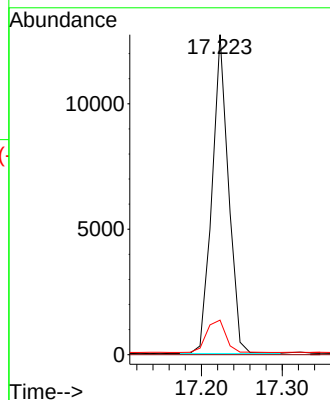
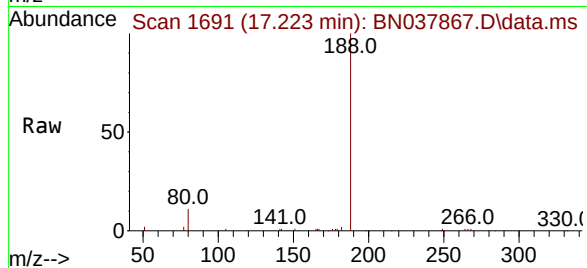
Tgt Ion:188 Resp: 17948

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.997 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

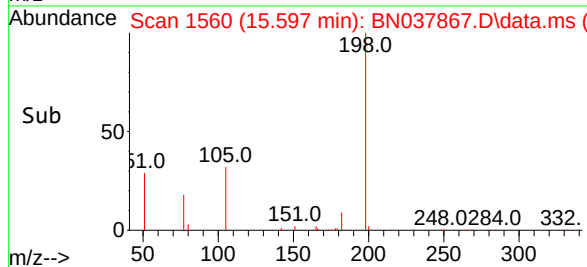
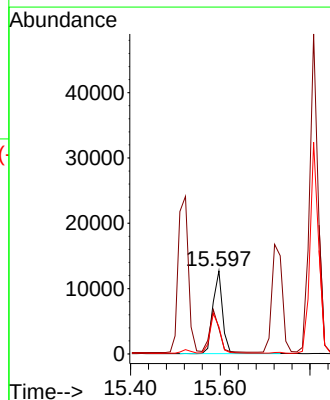
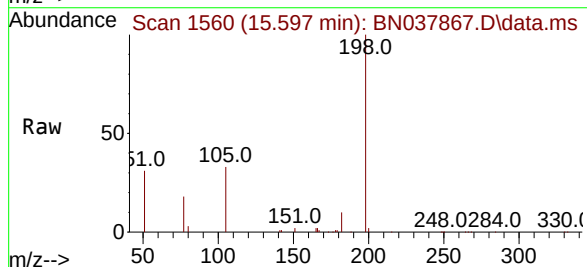
Tgt Ion:198 Resp: 18771

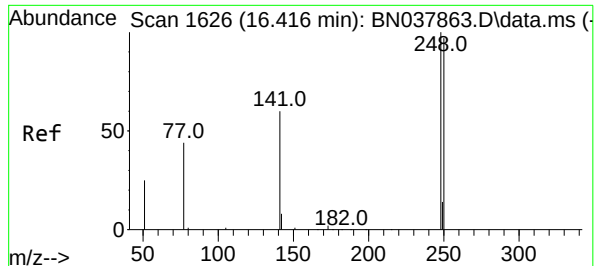
Ion Ratio Lower Upper

198 100

51 30.7 59.1 88.7#

105 32.7 41.3 61.9#

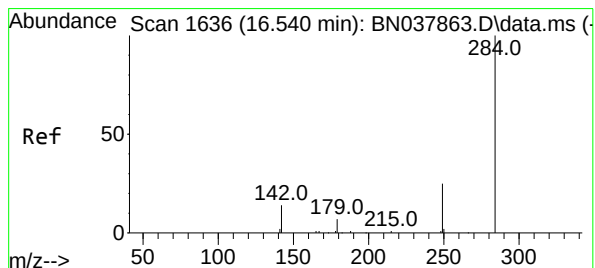
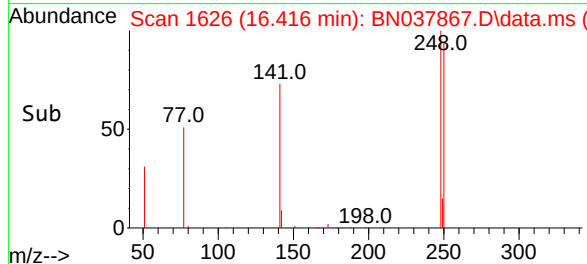
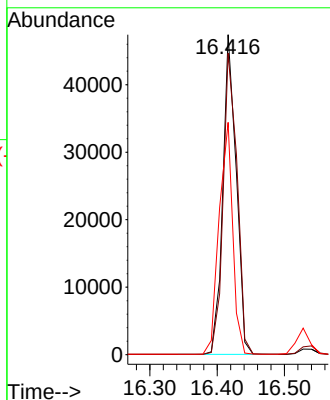
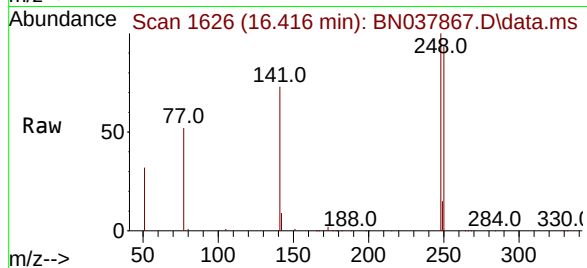




#21
4-Bromophenyl-phenylether
Concen: 5.577 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

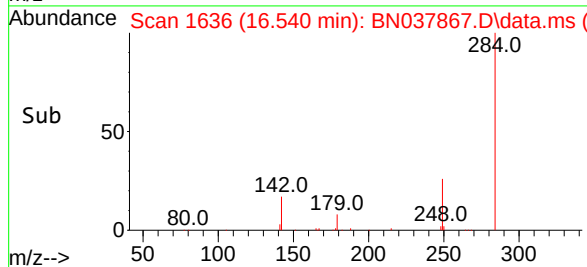
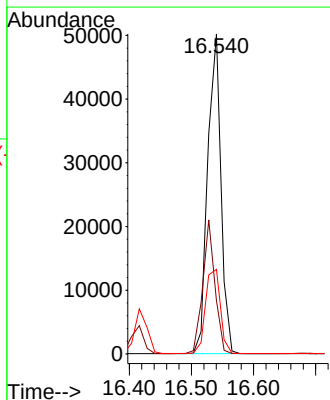
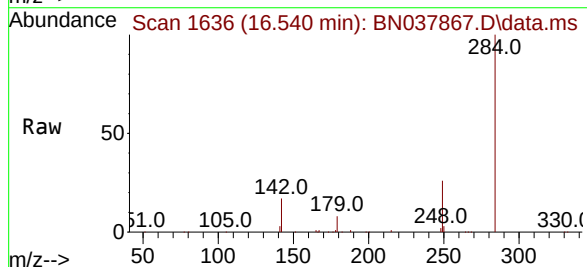
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

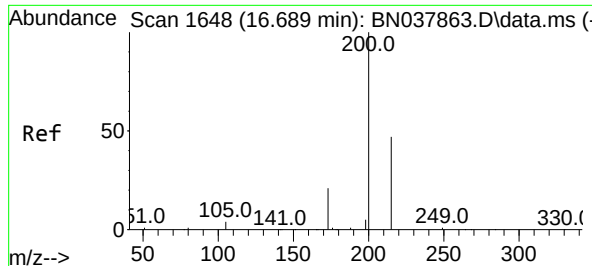
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.2	77.6	116.4
141	72.6	48.8	73.2



#22
Hexachlorobenzene
Concen: 5.252 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.9	46.3
249	29.6	23.9	35.9

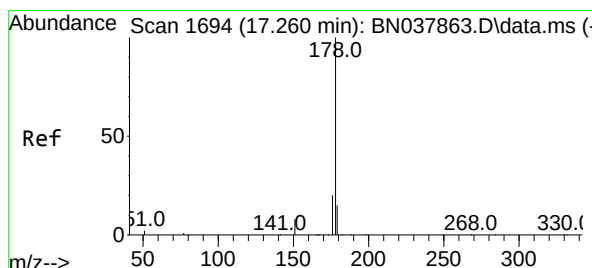
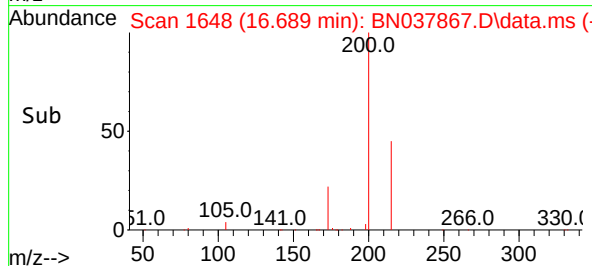
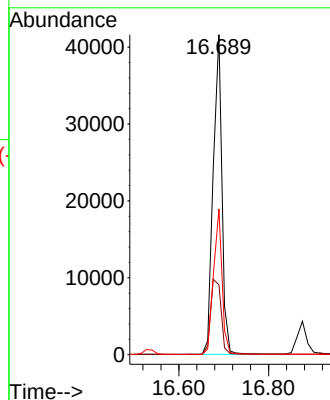
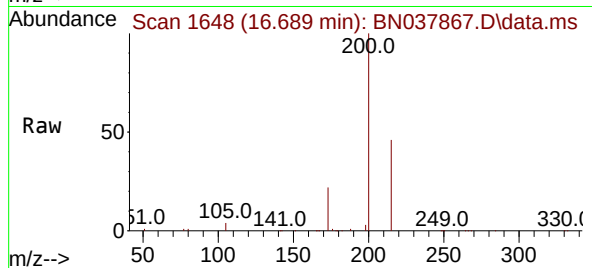




#23
Atrazine
Concen: 6.284 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

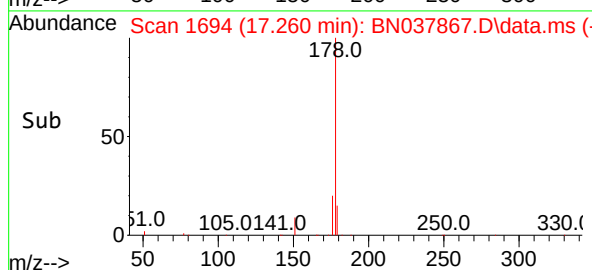
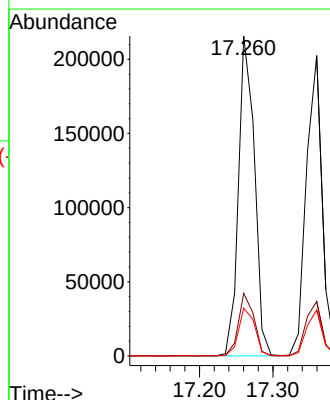
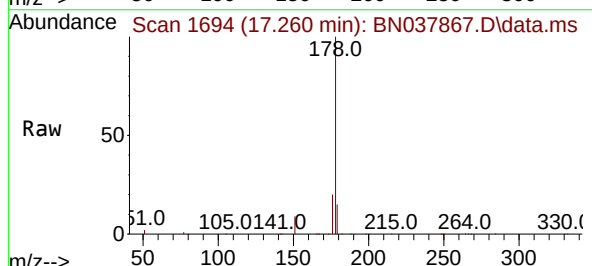
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

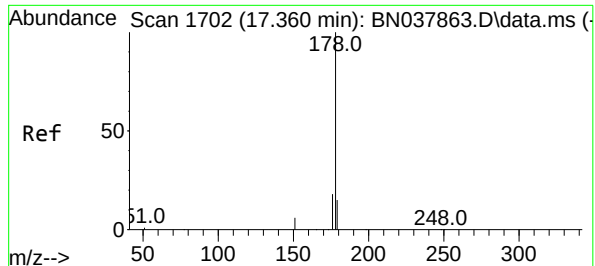
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.8	18.3	27.5
215	45.5	38.6	58.0



#25
Phenanthrene
Concen: 5.514 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.1	12.3	18.5

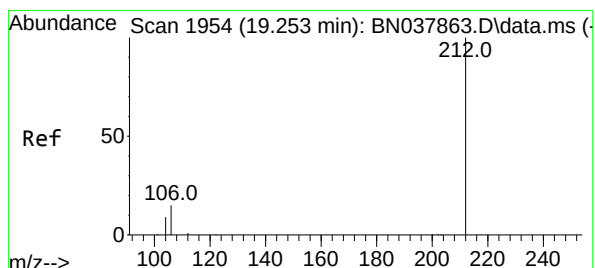
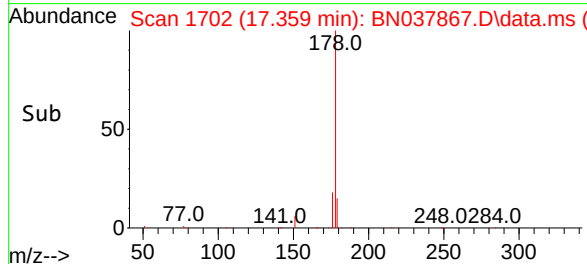
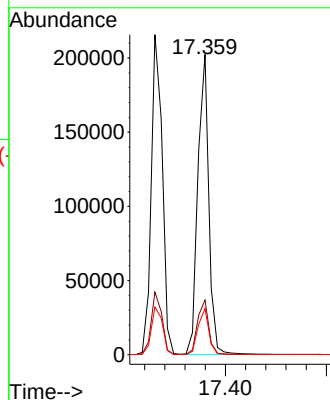
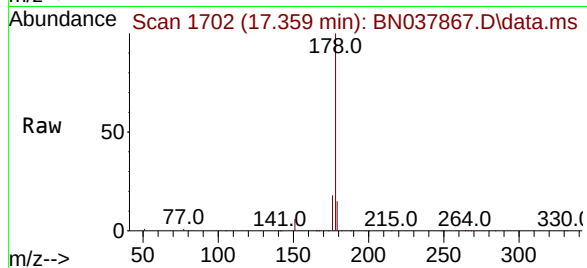




#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

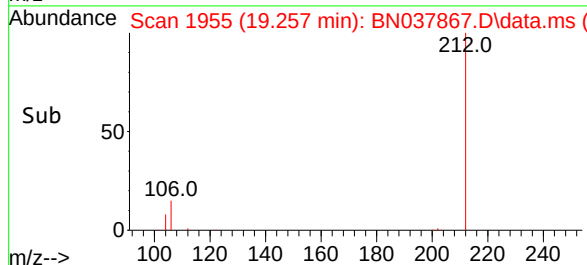
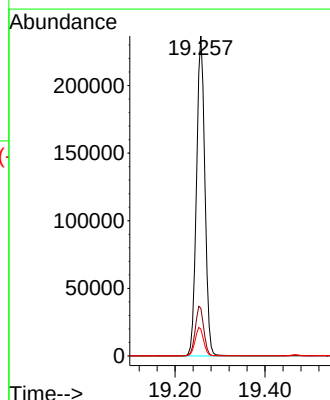
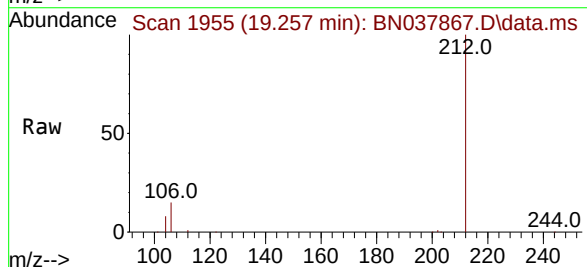
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

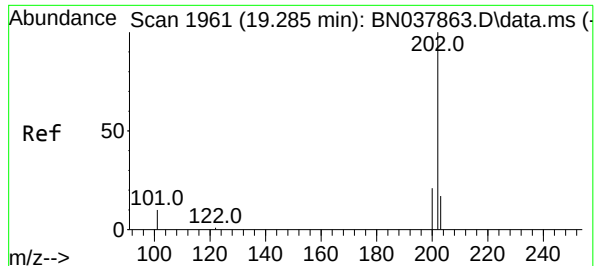
Tgt Ion:178 Resp: 305295
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5



#27
Fluoranthene-d10
Concen: 6.807 ng
RT: 19.257 min Scan# 1955
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:212 Resp: 307332
Ion Ratio Lower Upper
212 100
106 15.7 12.6 19.0
104 9.0 7.4 11.0





#28

Fluoranthene

Concen: 5.908 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

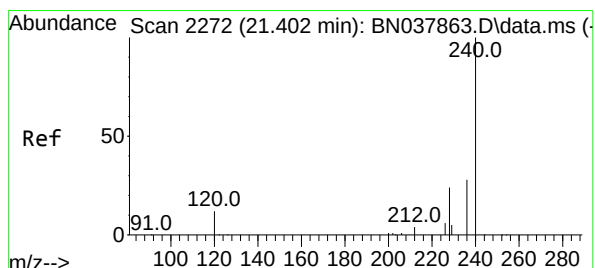
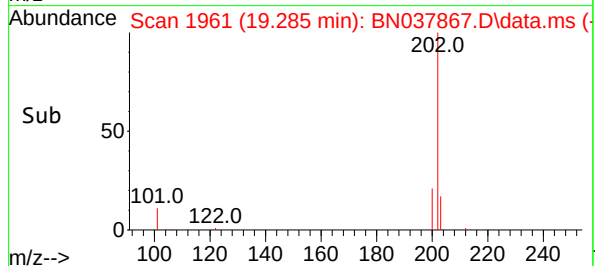
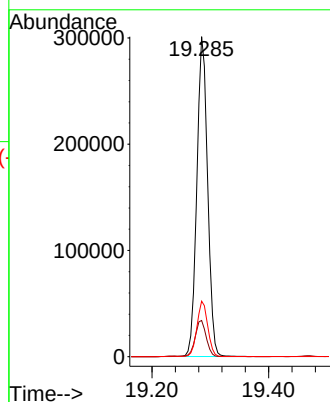
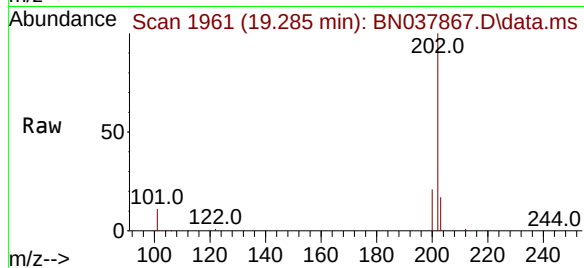
Tgt Ion:202 Resp: 384292

Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.3 13.6 20.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.411 min Scan# 2273

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

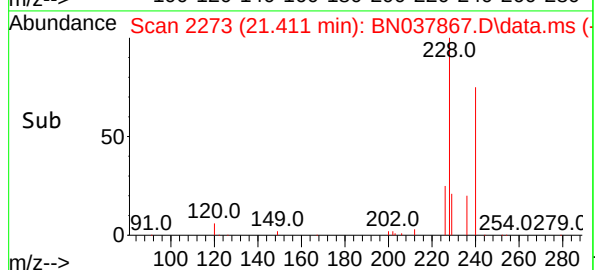
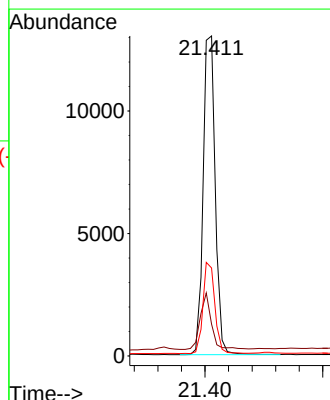
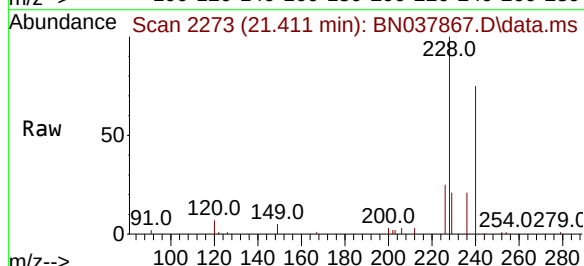
Tgt Ion:240 Resp: 18531

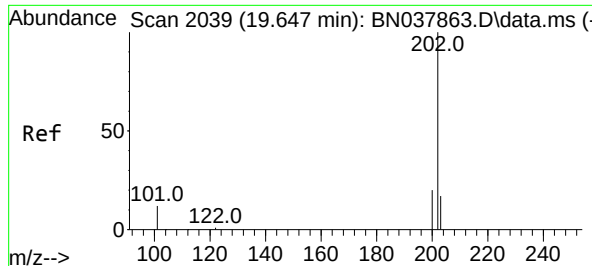
Ion Ratio Lower Upper

240 100

120 10.0 11.4 17.2#

236 27.5 23.0 34.6





#30

Pyrene

Concen: 5.315 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

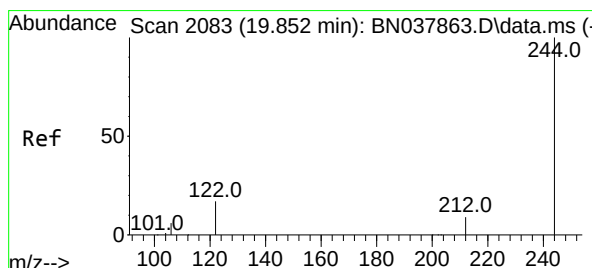
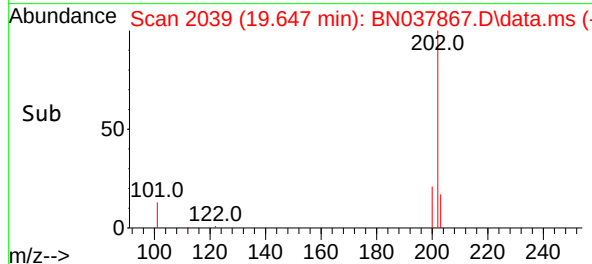
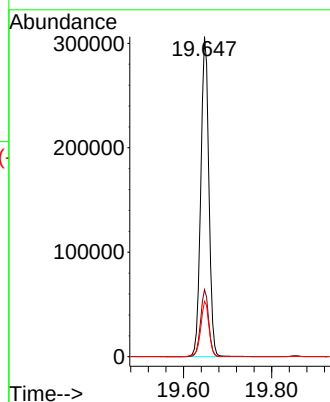
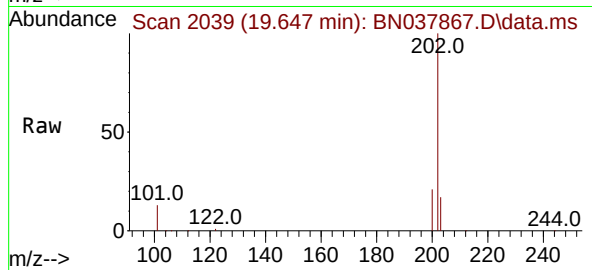
Tgt Ion:202 Resp: 388849

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4



#31

Terphenyl-d14

Concen: 5.606 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

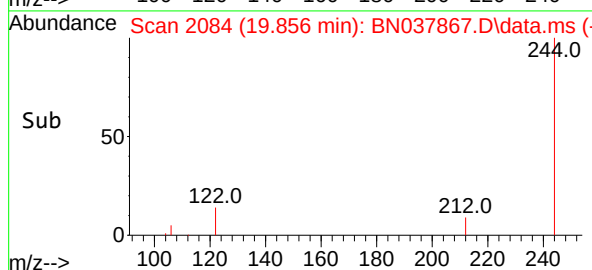
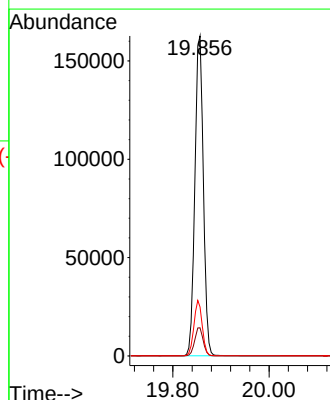
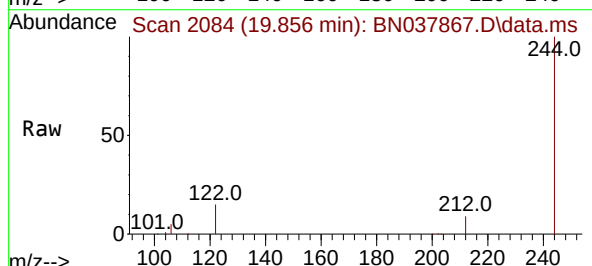
Tgt Ion:244 Resp: 206917

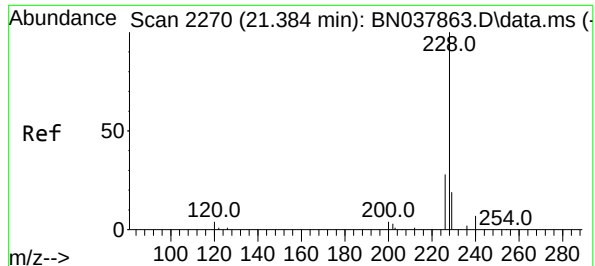
Ion Ratio Lower Upper

244 100

212 8.8 7.6 11.4

122 15.3 13.9 20.9





#32

Benzo(a)anthracene

Concen: 5.604 ng

RT: 21.393 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

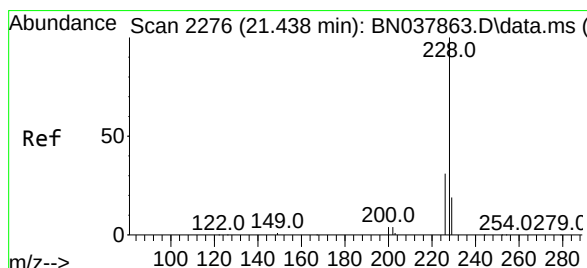
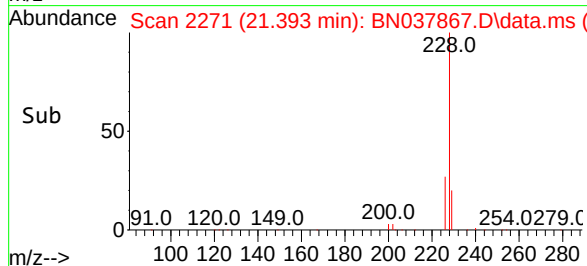
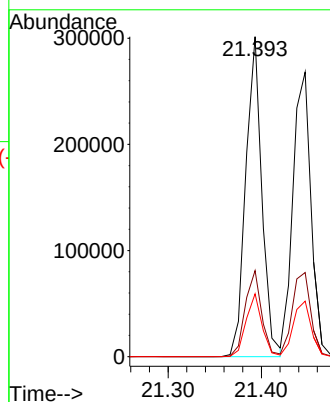
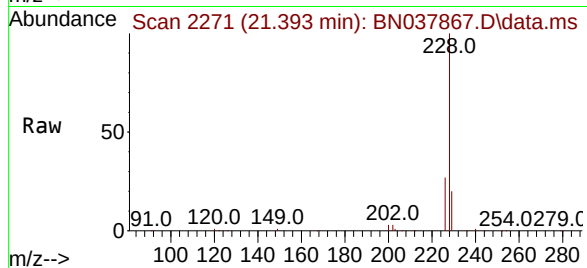
Tgt Ion:228 Resp: 362927

Ion Ratio Lower Upper

228 100

226 26.9 22.6 33.8

229 19.7 15.6 23.4



#33

Chrysene

Concen: 5.189 ng

RT: 21.447 min Scan# 2277

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

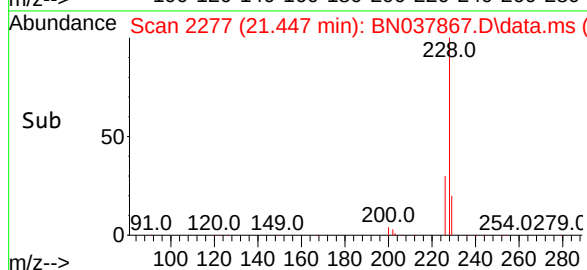
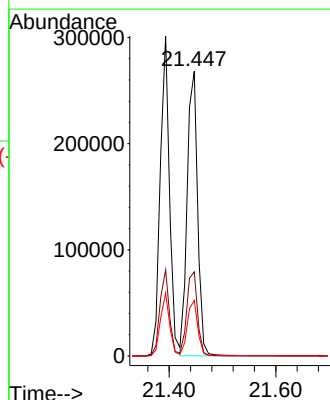
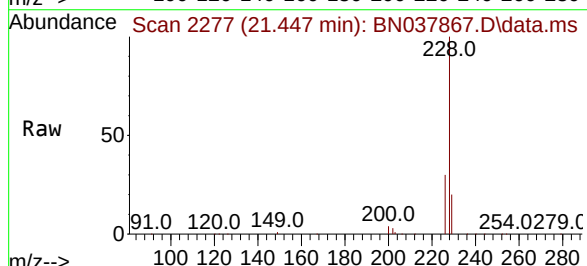
Tgt Ion:228 Resp: 363421

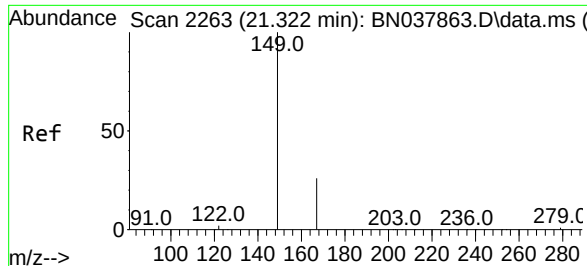
Ion Ratio Lower Upper

228 100

226 29.6 24.6 37.0

229 19.5 15.6 23.4

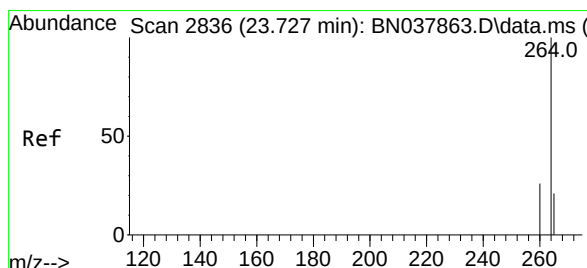
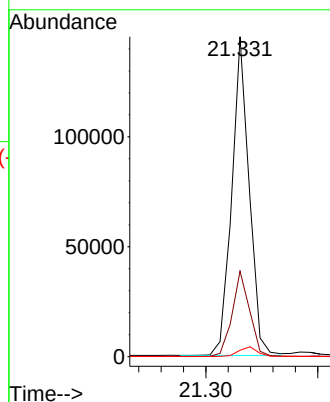
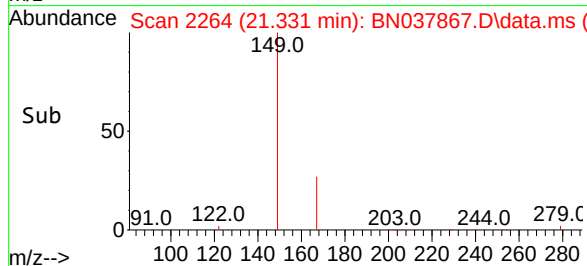
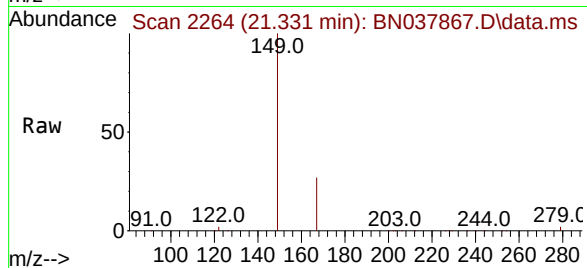




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.109 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

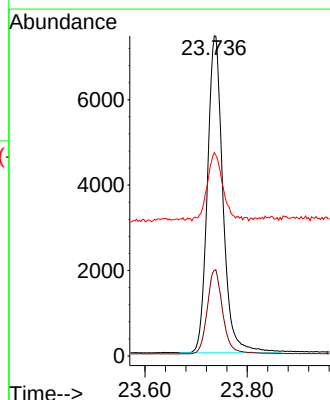
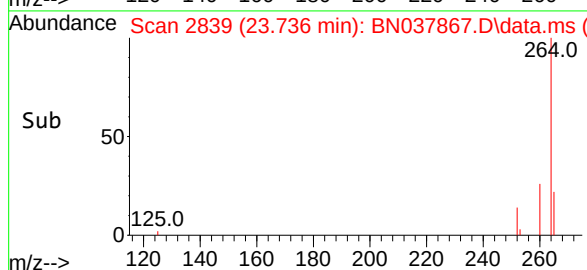
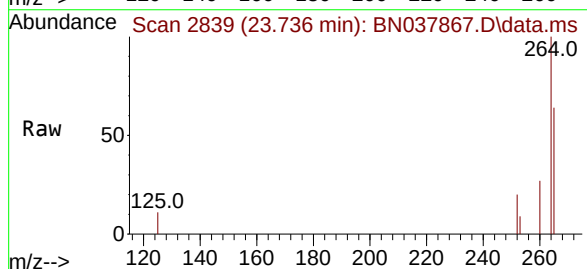
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

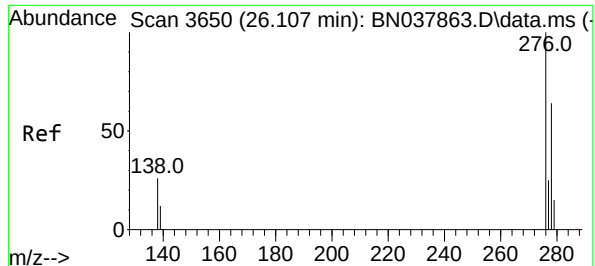
Tgt Ion:149 Resp: 156492
Ion Ratio Lower Upper
149 100
167 26.8 20.4 30.6
279 3.2 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:264 Resp: 15649
Ion Ratio Lower Upper
264 100
260 26.8 21.5 32.3
265 63.5 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.906 ng

RT: 26.115 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

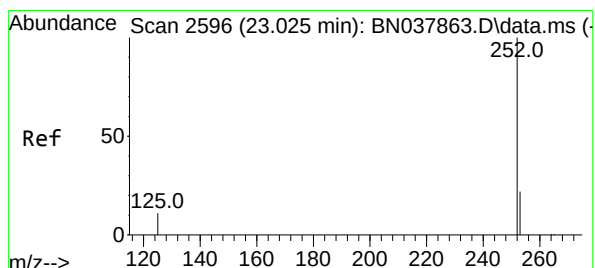
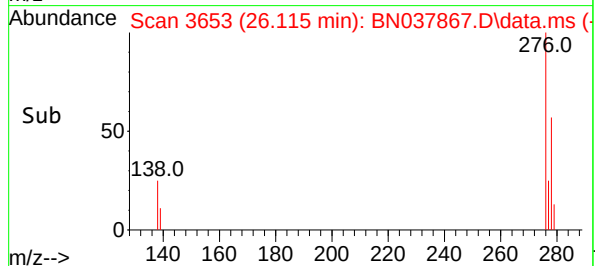
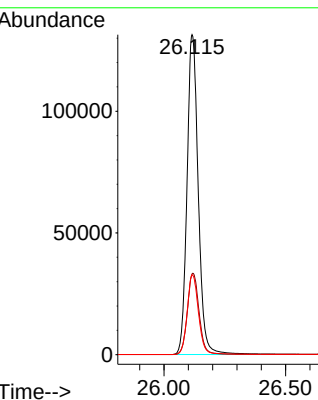
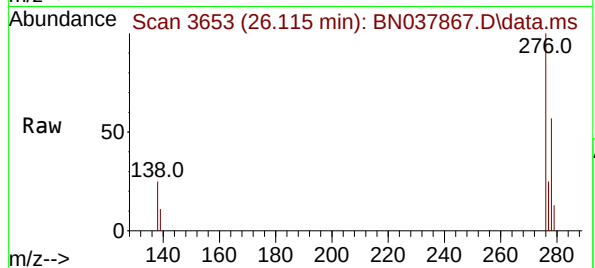
Tgt Ion:276 Resp: 422337

Ion Ratio Lower Upper

276 100

138 26.3 21.4 32.0

277 25.1 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 5.742 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

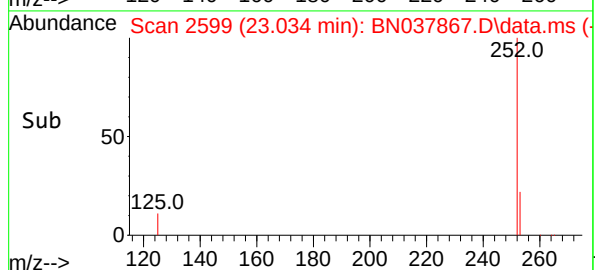
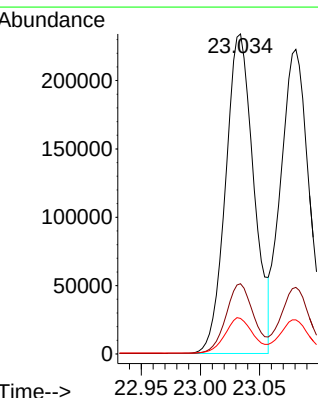
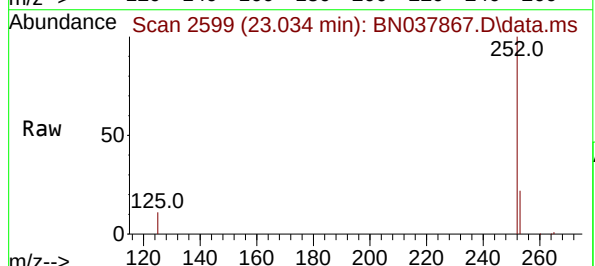
Tgt Ion:252 Resp: 387512

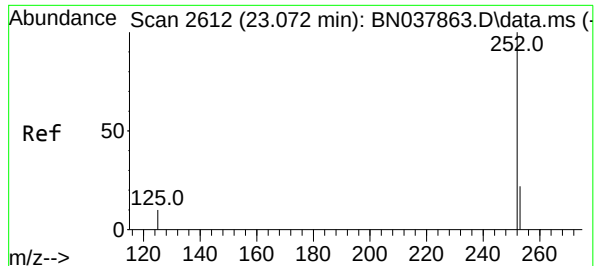
Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.0

125 11.1 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 23.081 min Scan# 2

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

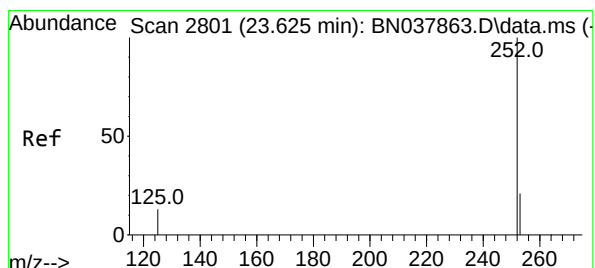
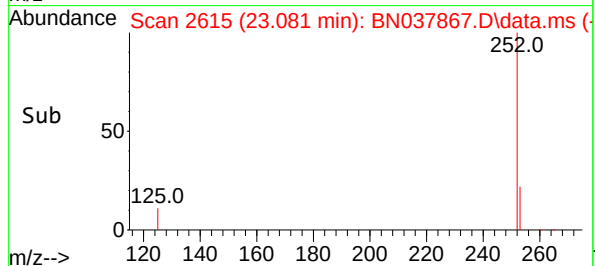
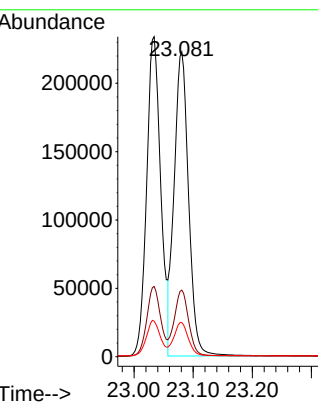
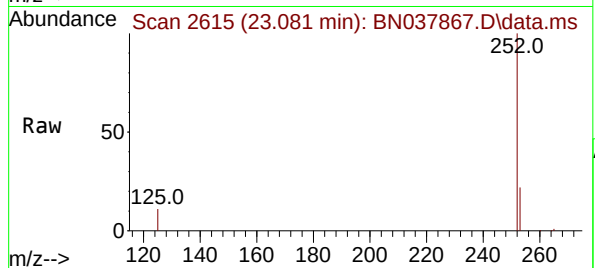
Tgt Ion:252 Resp: 376732

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 11.2 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 5.900 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

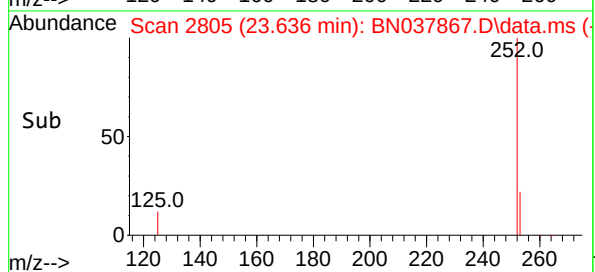
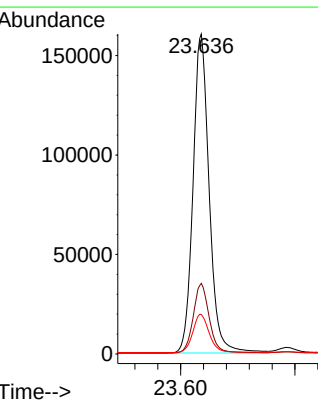
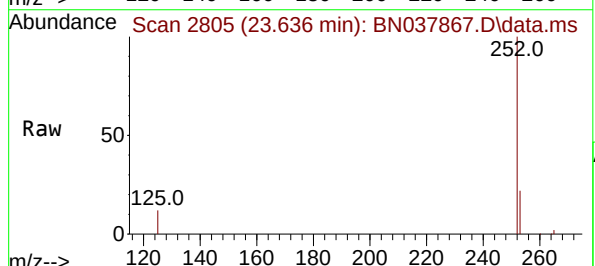
Tgt Ion:252 Resp: 314913

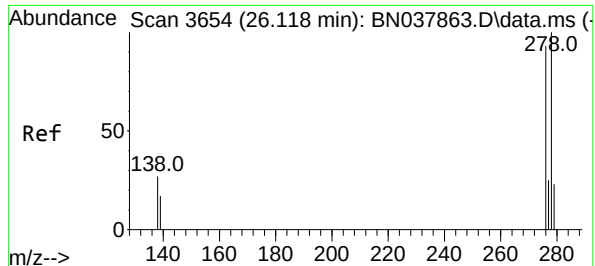
Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

125 12.3 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 5.971 ng

RT: 26.133 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

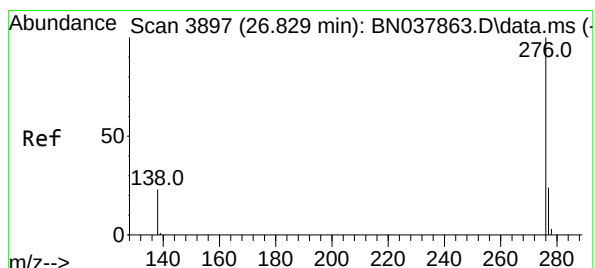
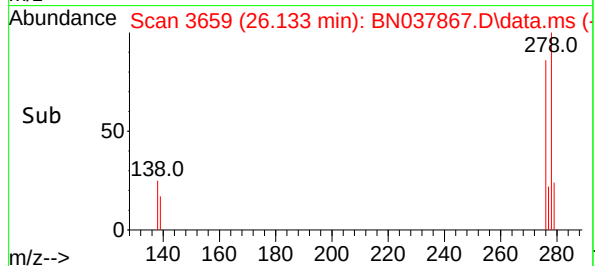
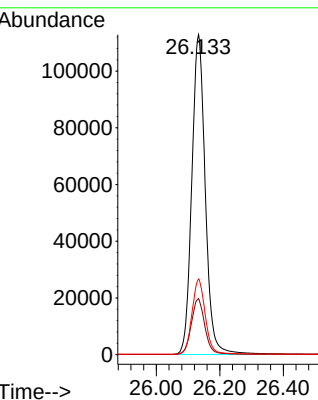
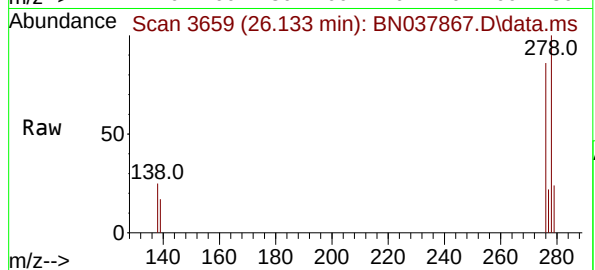
Tgt Ion:278 Resp: 333427

Ion Ratio Lower Upper

278 100

139 17.5 15.4 23.2

279 23.6 20.8 31.2



#41

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 26.840 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

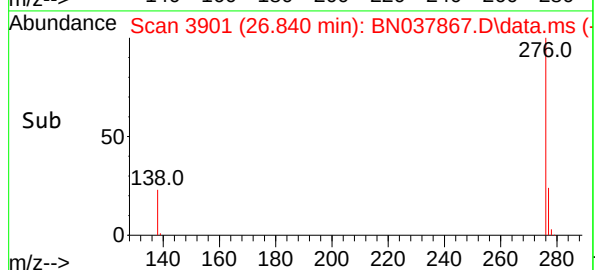
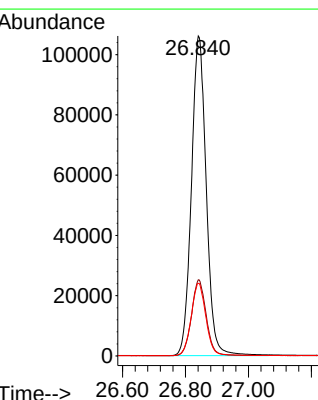
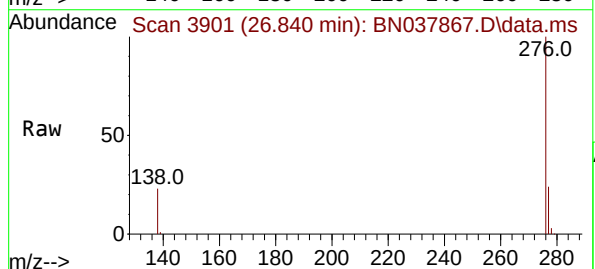
Tgt Ion:276 Resp: 346868

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 22.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

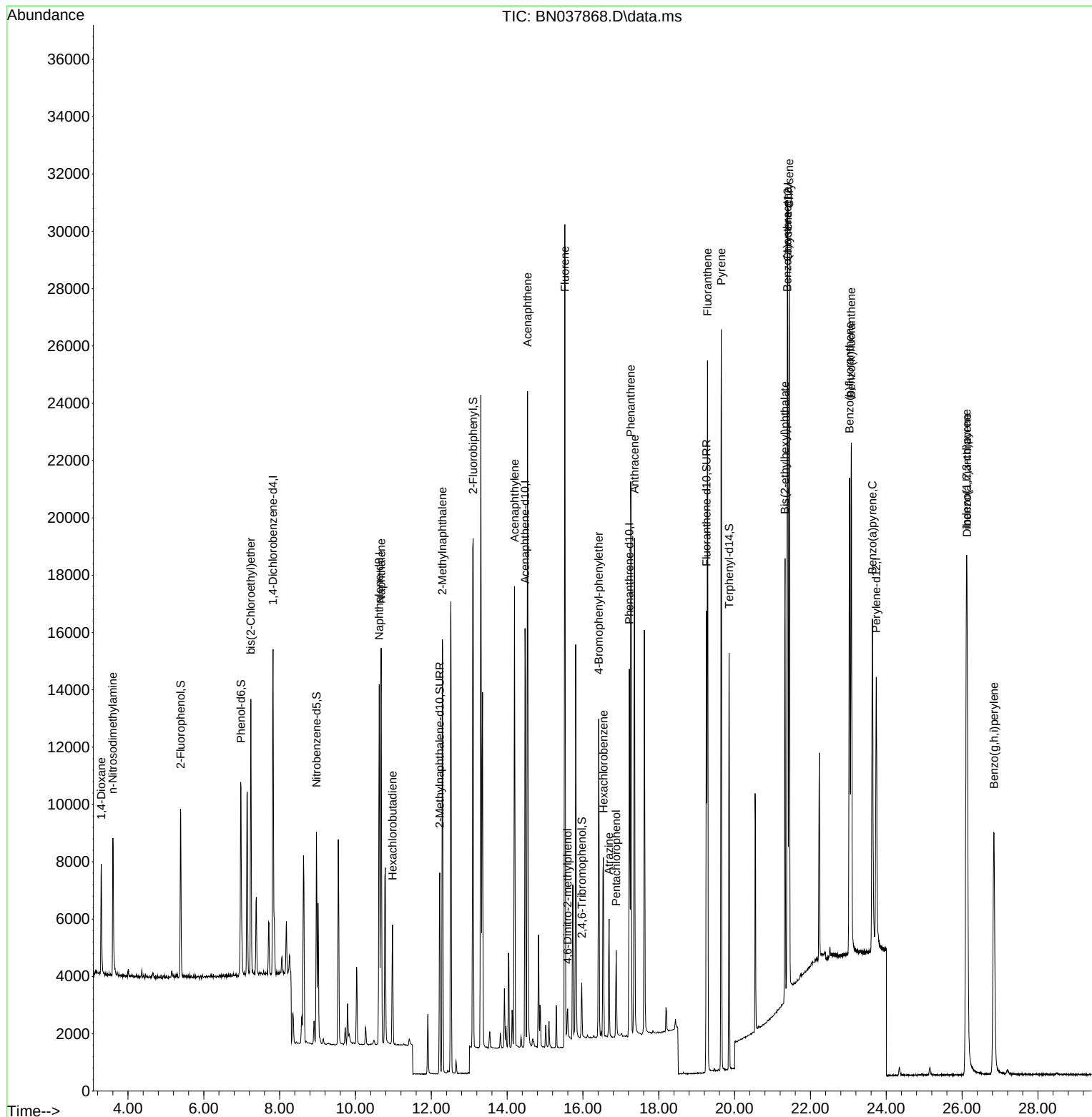
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	14204	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13265	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5005	0.394	ng	0.00
5) Phenol-d6	6.980	99	6375	0.382	ng	0.00
8) Nitrobenzene-d5	8.971	82	5453	0.442	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	9492	0.423	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1107	0.346	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	16723	0.485	ng	0.01
27) Fluoranthene-d10	19.257	212	16910	0.413	ng	0.00
31) Terphenyl-d14	19.856	244	13646	0.482	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2698	0.477	ng	98
3) n-Nitrosodimethylamine	3.600	42	3070	0.408	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	6823	0.440	ng	99
9) Naphthalene	10.680	128	18392	0.413	ng	99
10) Hexachlorobutadiene	10.979	225	3253	0.428	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10904	0.375	ng	99
16) Acenaphthylene	14.195	152	16721	0.437	ng	99
17) Acenaphthene	14.537	154	11059	0.406	ng	99
18) Fluorene	15.522	166	13327	0.404	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	737	0.418	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	4157	0.392	ng	# 89
22) Hexachlorobenzene	16.540	284	5455	0.424	ng	100
23) Atrazine	16.689	200	3196	0.396	ng	98
24) Pentachlorophenol	16.875	266	1396	0.316	ng	99
25) Phenanthrene	17.260	178	22020	0.411	ng	100
26) Anthracene	17.360	178	18967	0.408	ng	99
28) Fluoranthene	19.285	202	23044	0.391	ng	100
30) Pyrene	19.647	202	22563	0.402	ng	100
32) Benzo(a)anthracene	21.393	228	20398	0.411	ng	99
33) Chrysene	21.438	228	22204	0.414	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	7939	0.404	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	25340	0.418	ng	99
37) Benzo(b)fluoranthene	23.031	252	22193	0.388	ng	99
38) Benzo(k)fluoranthene	23.078	252	23886	0.415	ng	100
39) Benzo(a)pyrene	23.633	252	19091	0.422	ng	100
40) Dibenzo(a,h)anthracene	26.130	278	19441	0.411	ng	100
41) Benzo(g,h,i)perylene	26.841	276	19570	0.394	ng	99

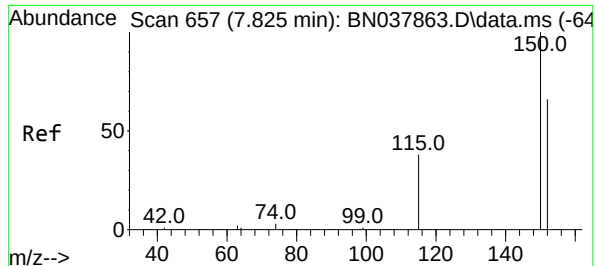
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

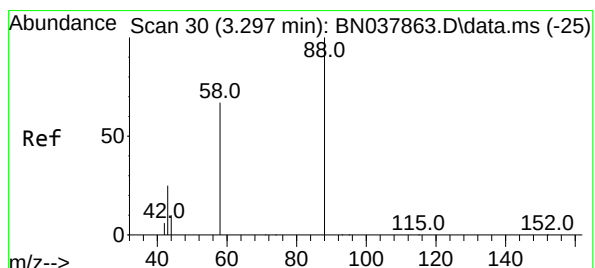
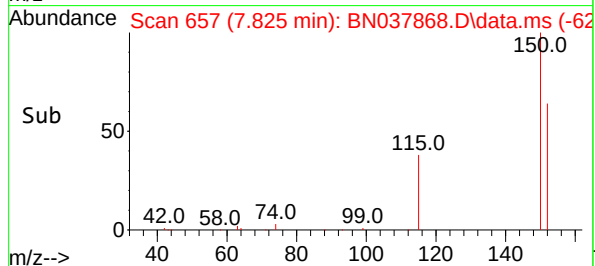
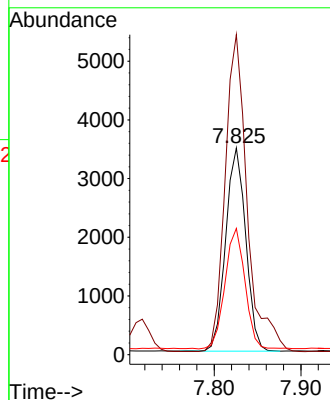
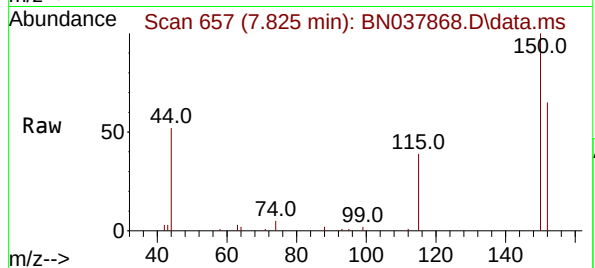




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

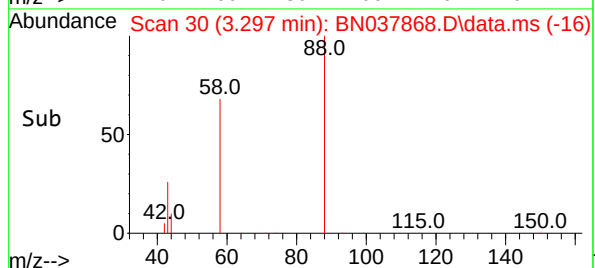
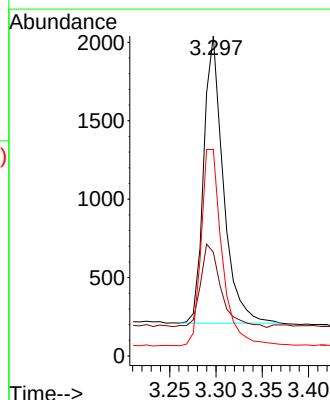
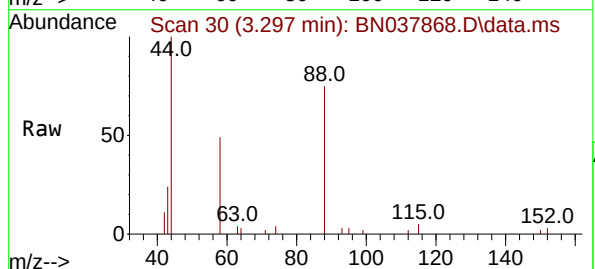
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

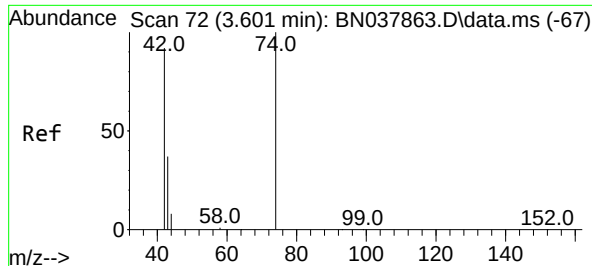
Tgt Ion:152 Resp: 5572
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 0.477 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 88 Resp: 2698
Ion Ratio Lower Upper
88 100
43 30.6 26.6 39.8
58 72.8 58.9 88.3

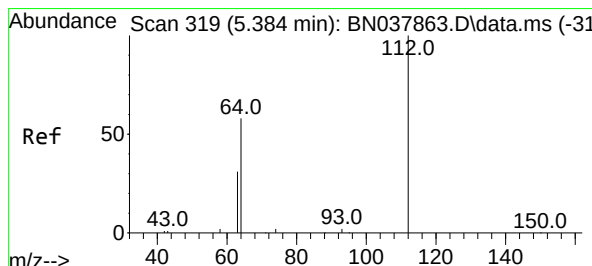
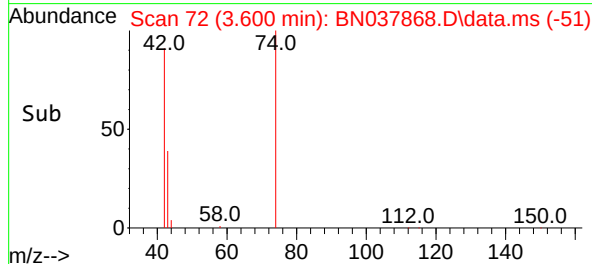
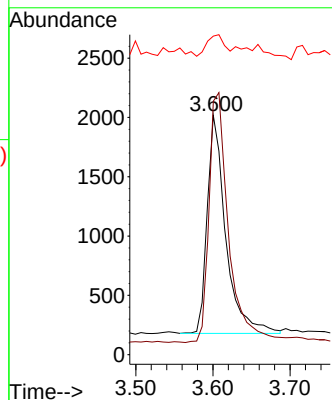
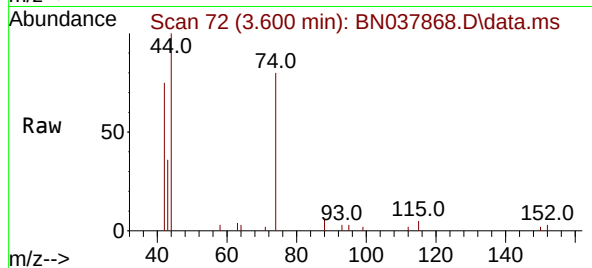




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

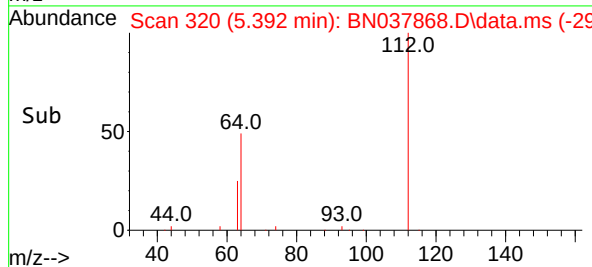
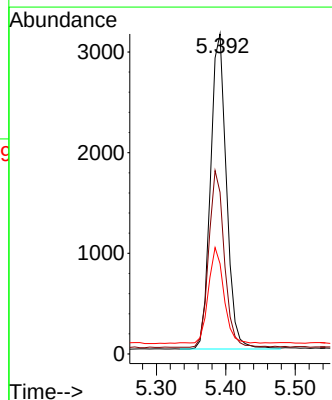
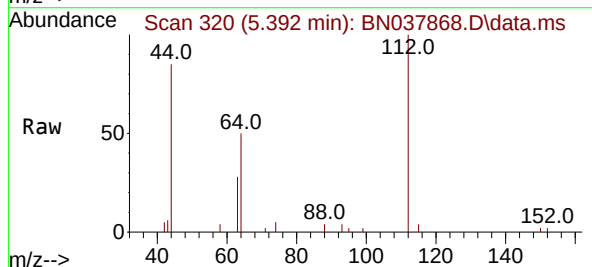
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

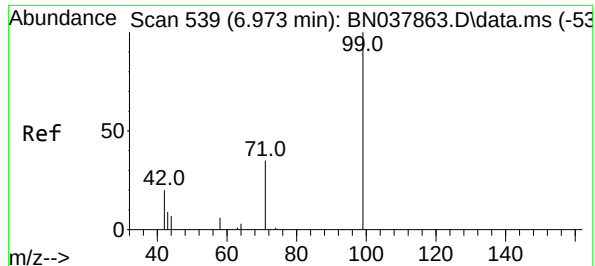
Tgt Ion: 42 Resp: 3070
Ion Ratio Lower Upper
42 100
74 121.8 93.4 140.0
44 9.2 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 112 Resp: 5005
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 29.8 24.9 37.3

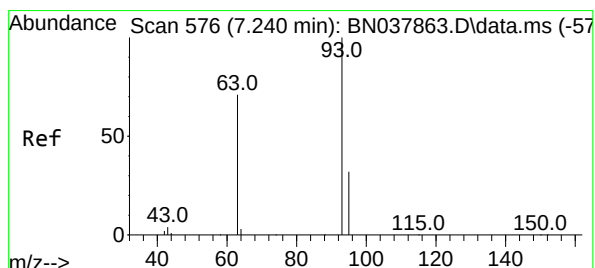
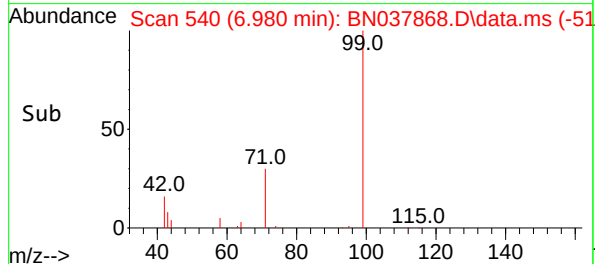
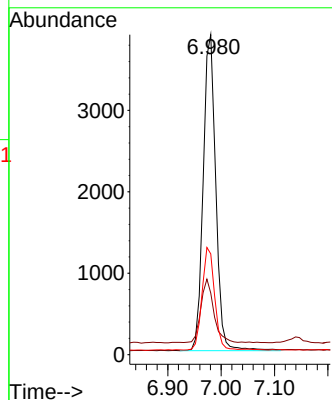
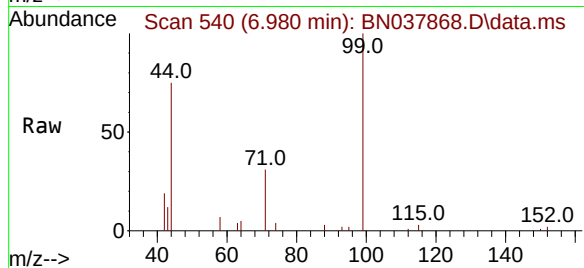




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

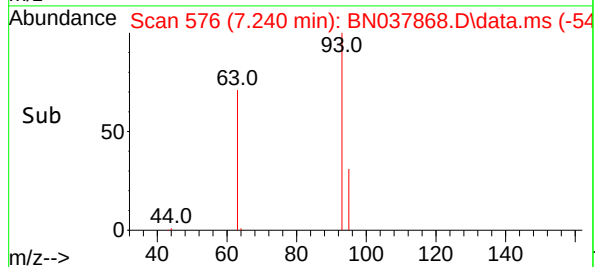
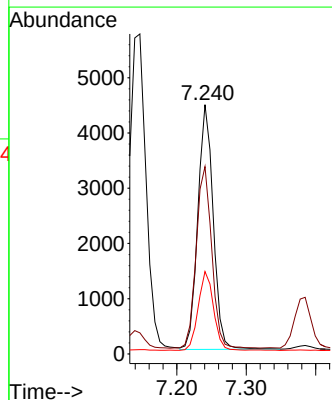
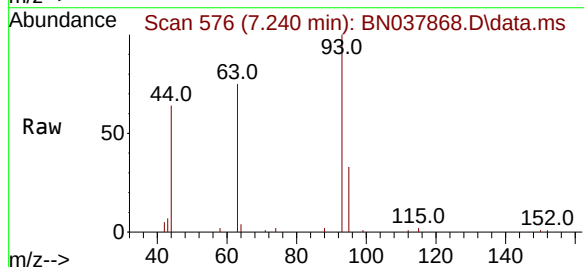
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

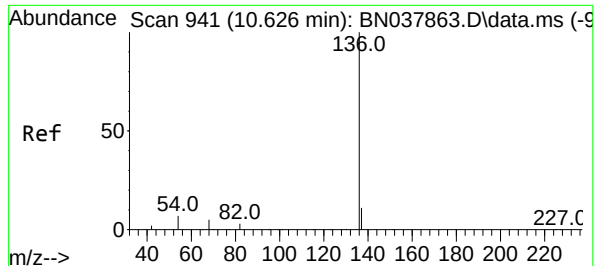
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.2	25.8
71	32.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.7	60.1	90.1
95	32.3	25.4	38.2

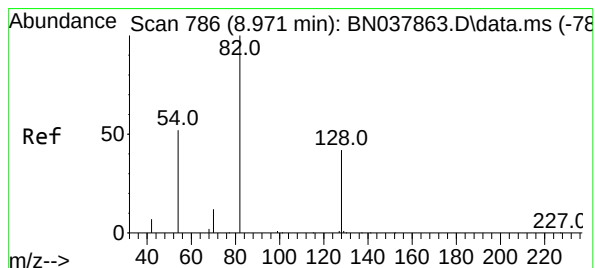
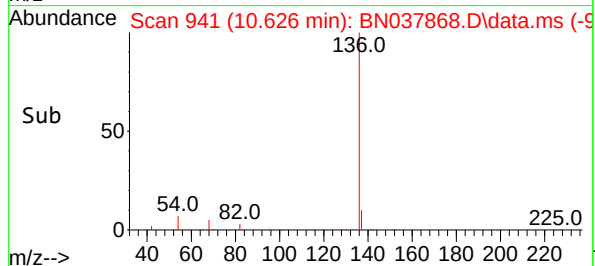
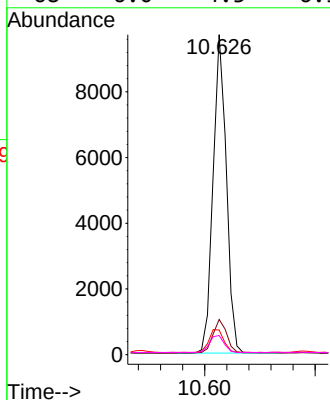
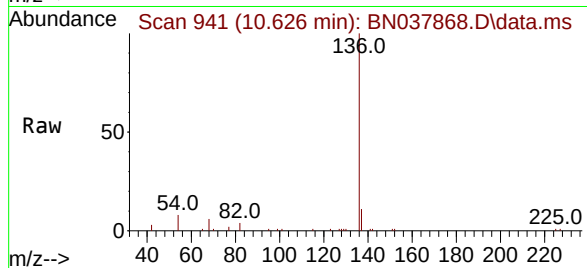




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

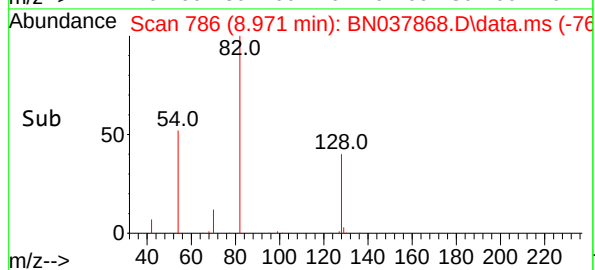
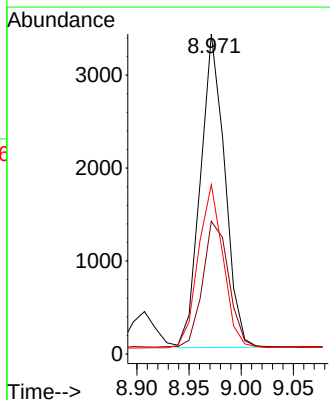
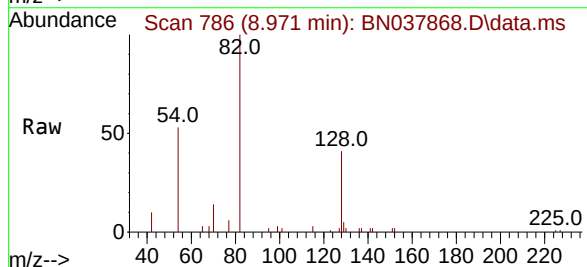
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

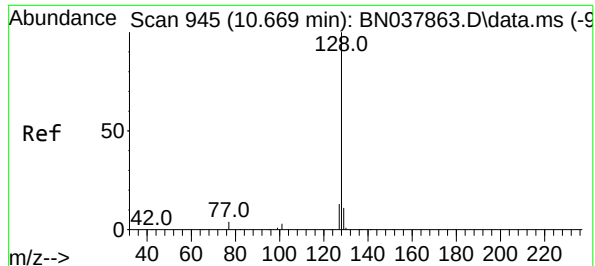
Tgt Ion:	136	Resp:	16158
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.7	5.8	8.8
68	6.0	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.442 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:	82	Resp:	5453
Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.8	52.2
54	52.9	42.2	63.2

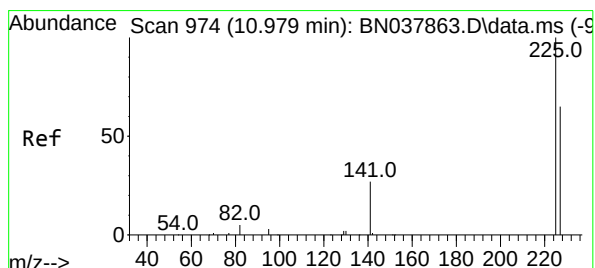
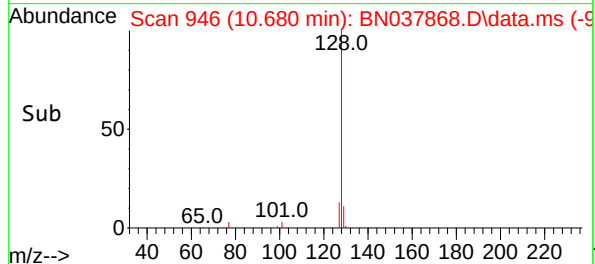
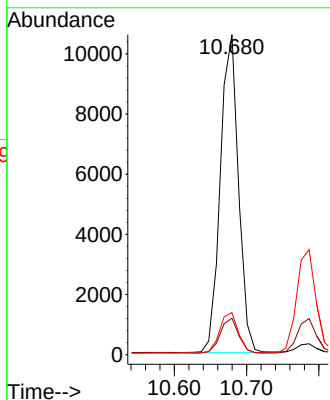
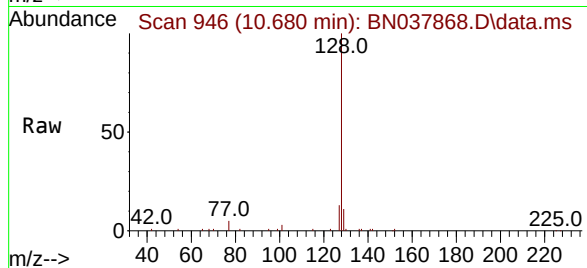




#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

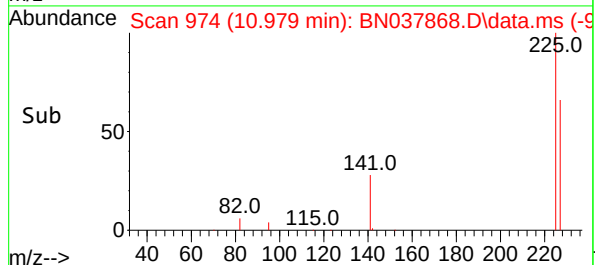
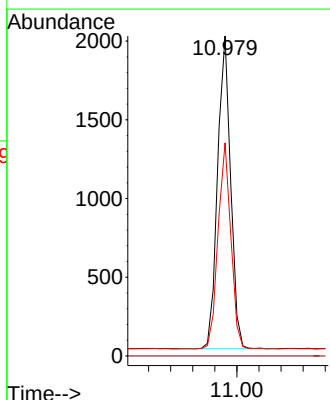
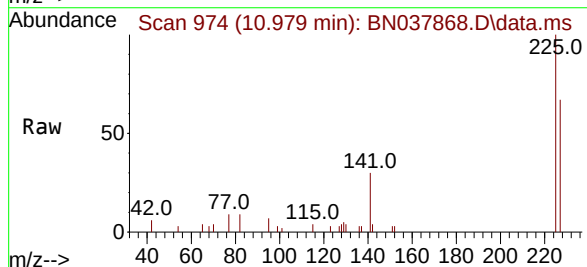
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

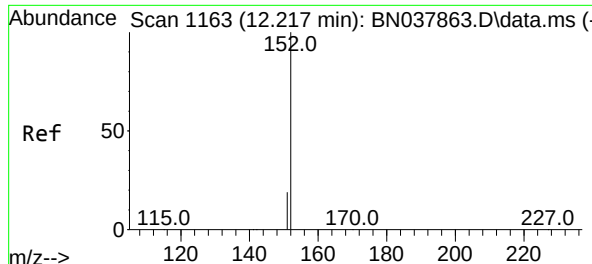
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.4	77.2

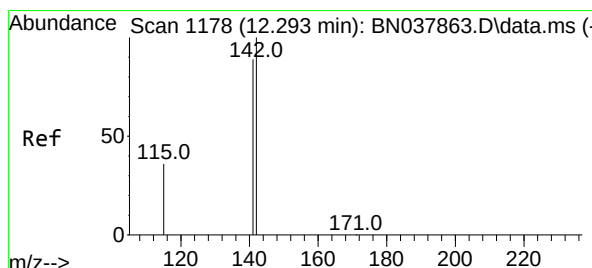
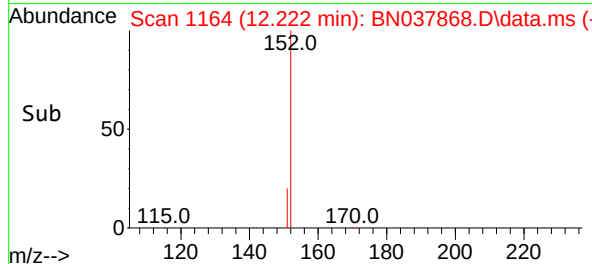
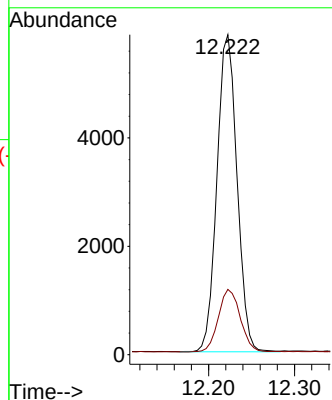
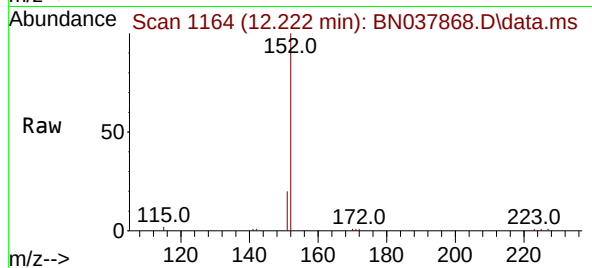




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

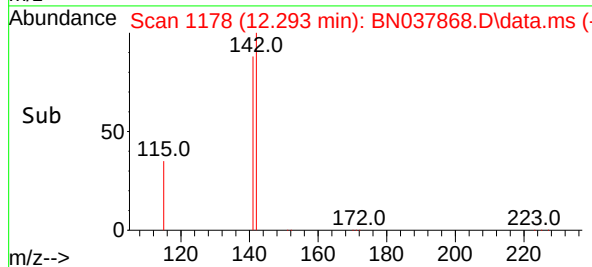
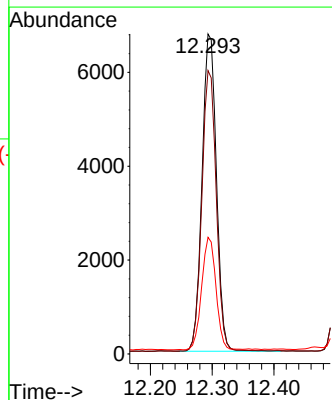
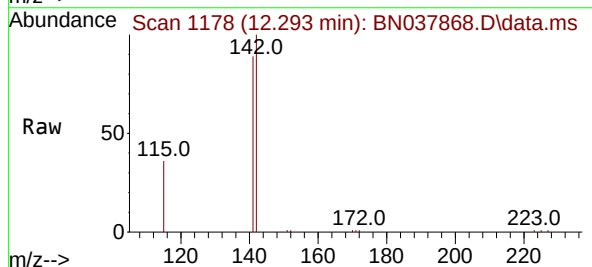
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

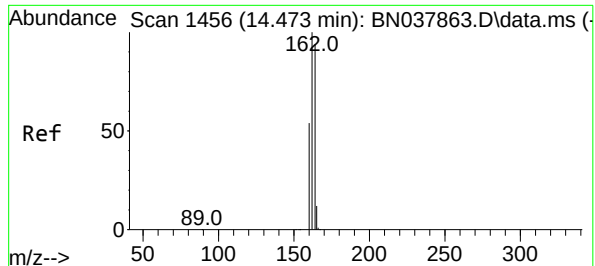
Tgt Ion:152 Resp: 9492
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:142 Resp: 10904
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 36.5 29.7 44.5

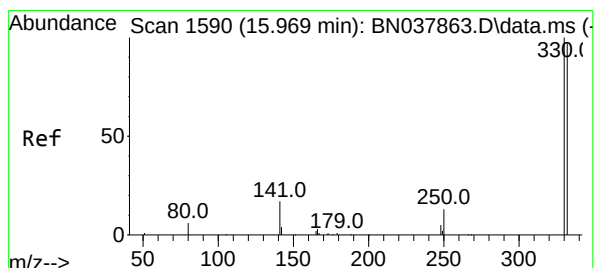
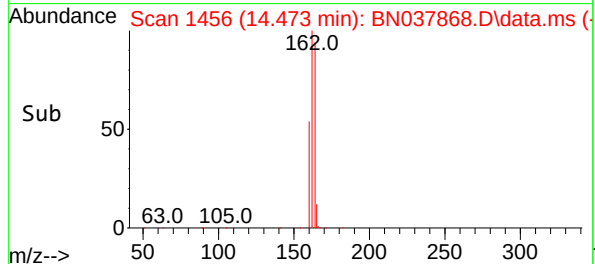
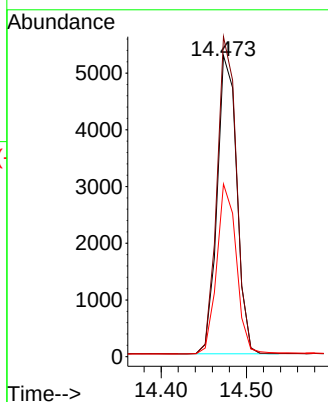
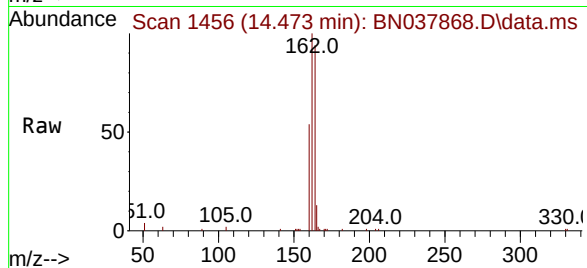




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

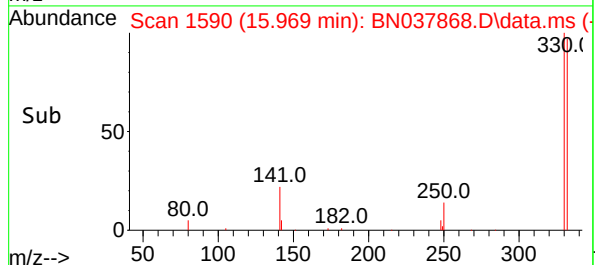
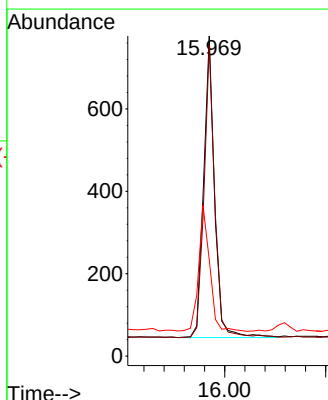
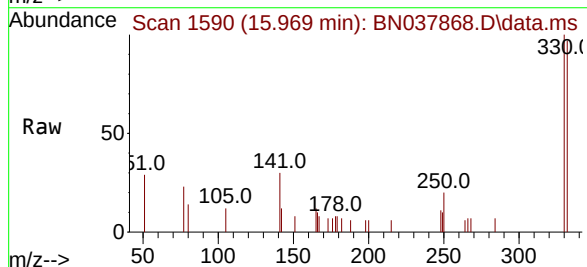
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

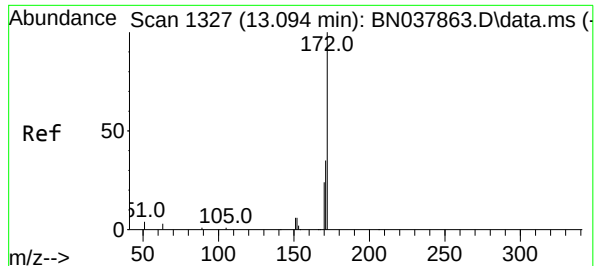
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	84.8	127.2
160	57.3	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.1	77.2	115.8
141	42.0	37.2	55.8





#15

2-Fluorobiphenyl

Concen: 0.485 ng

RT: 13.105 min Scan# 11

Delta R.T. 0.011 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

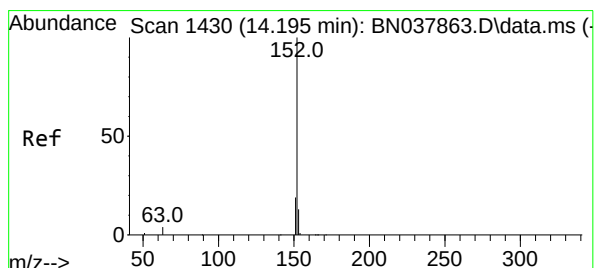
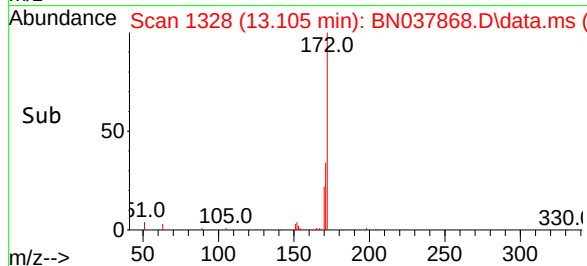
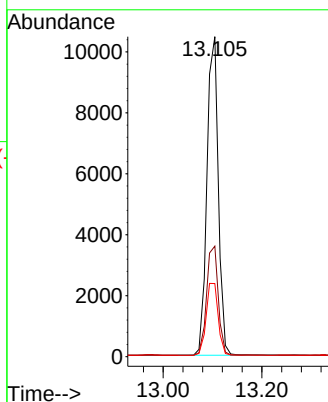
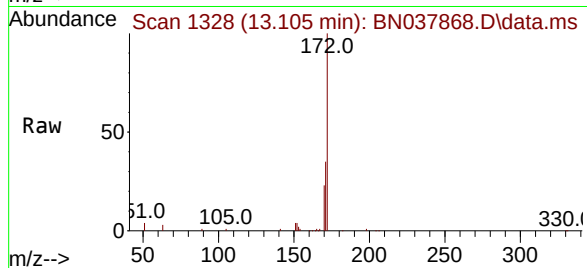
Tgt Ion:172 Resp: 16723

Ion Ratio Lower Upper

172 100

171 34.6 28.6 43.0

170 22.9 19.7 29.5



#16

Acenaphthylene

Concen: 0.437 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

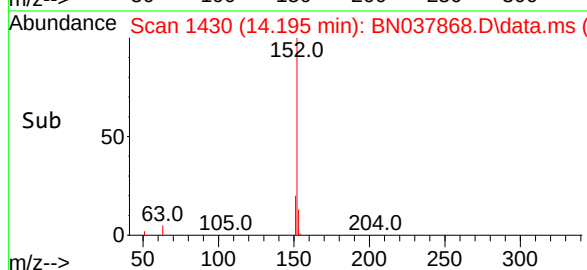
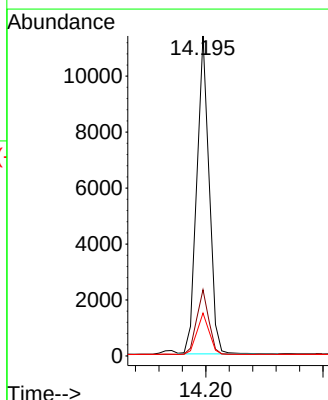
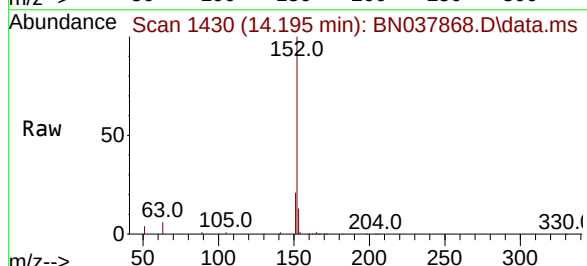
Tgt Ion:152 Resp: 16721

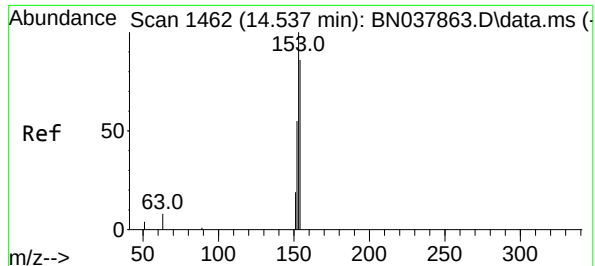
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 0.406 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

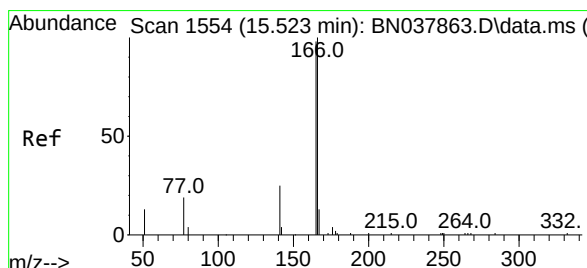
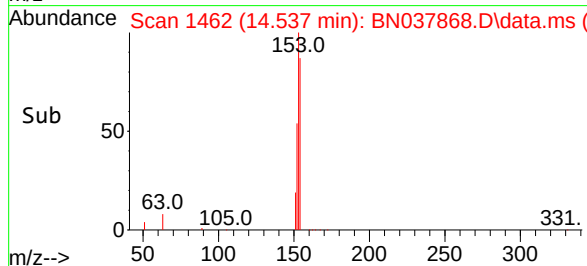
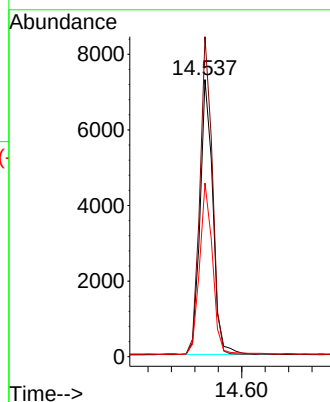
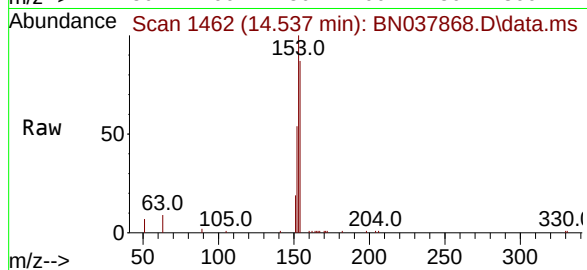
Tgt Ion:154 Resp: 11059

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

152 63.5 51.8 77.8



#18

Fluorene

Concen: 0.404 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

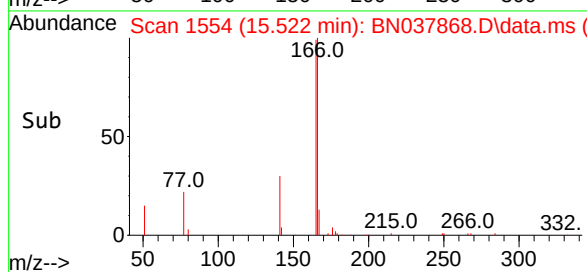
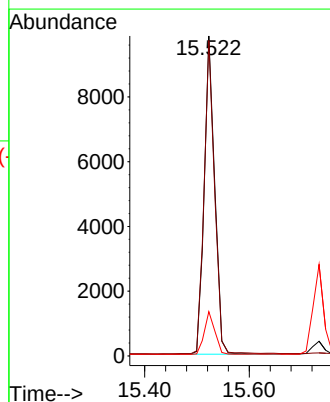
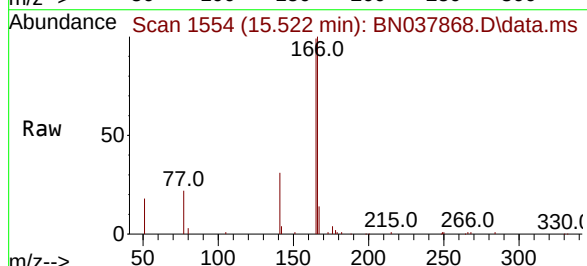
Tgt Ion:166 Resp: 13327

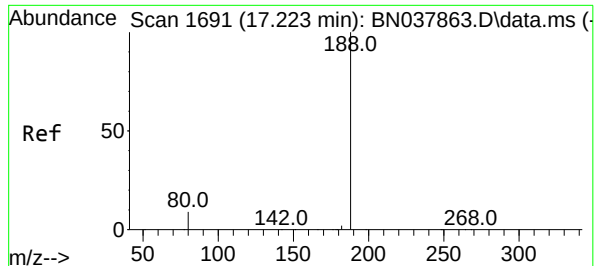
Ion Ratio Lower Upper

166 100

165 95.9 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

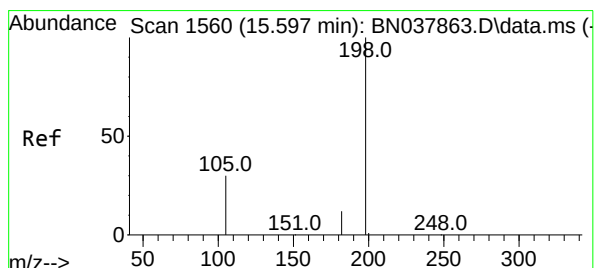
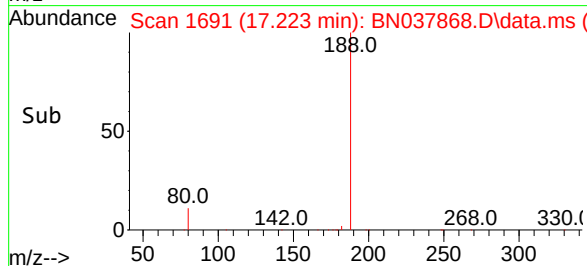
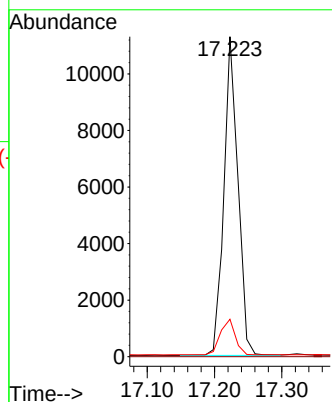
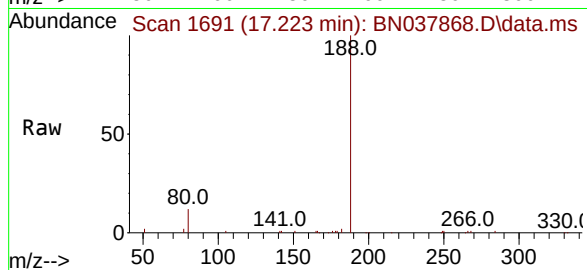
Tgt Ion:188 Resp: 16279

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.418 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

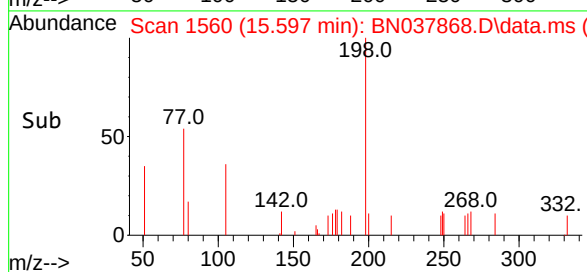
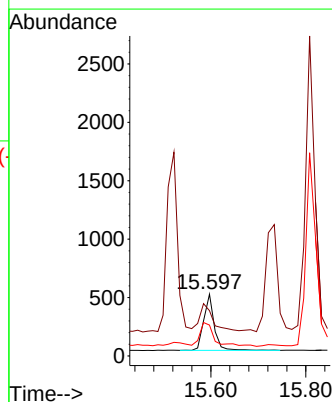
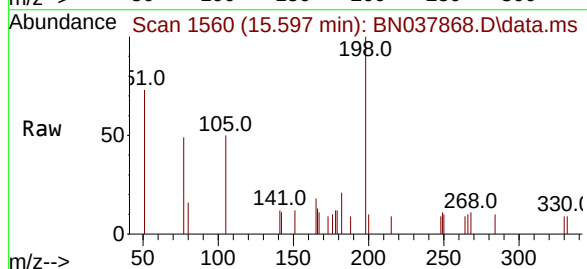
Tgt Ion:198 Resp: 737

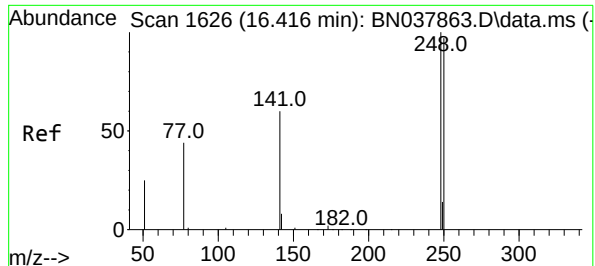
Ion Ratio Lower Upper

198 100

51 73.3 59.1 88.7

105 49.9 41.3 61.9

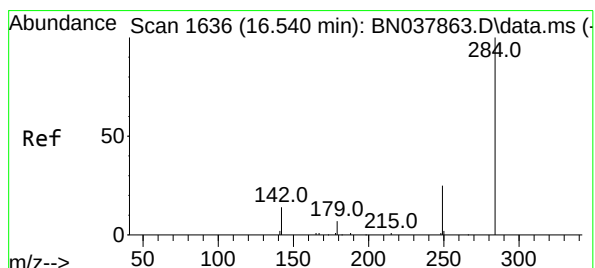
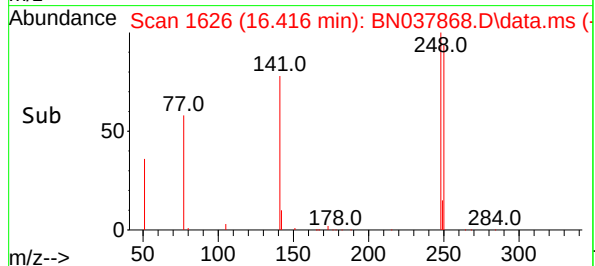
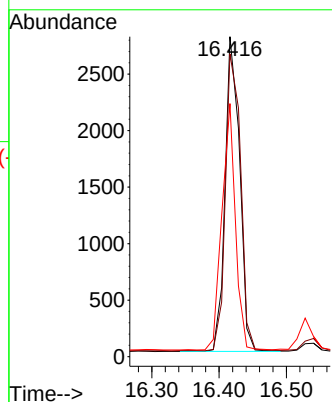
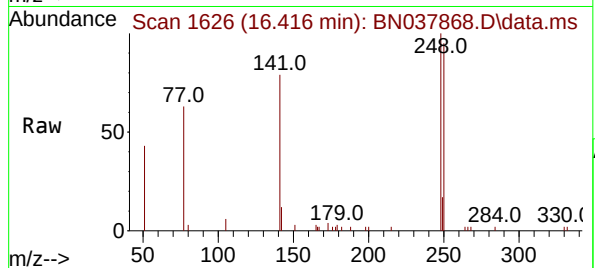




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

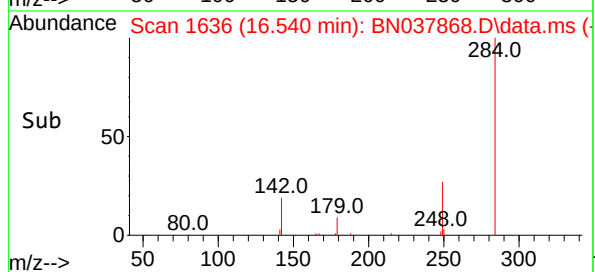
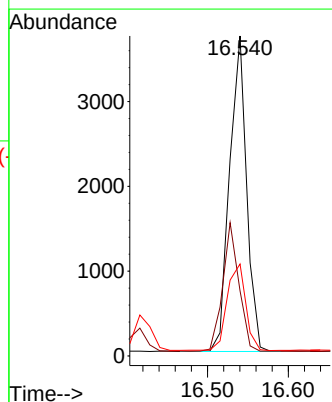
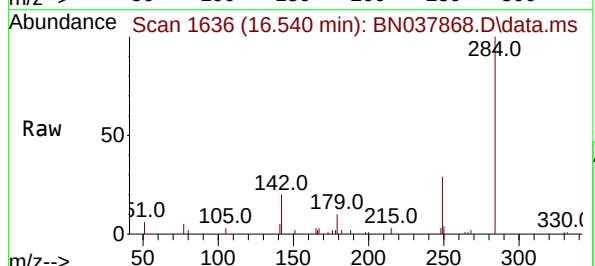
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

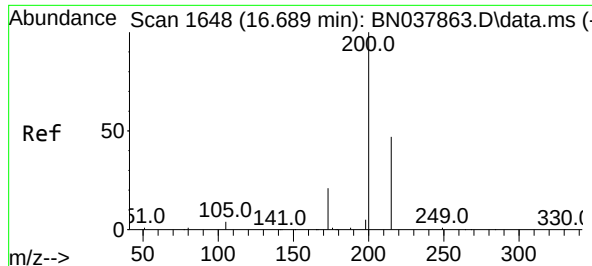
Tgt Ion:248 Resp: 4157
Ion Ratio Lower Upper
248 100
250 94.6 77.6 116.4
141 79.1 48.8 73.2#



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:284 Resp: 5455
Ion Ratio Lower Upper
284 100
142 38.9 30.9 46.3
249 30.0 23.9 35.9

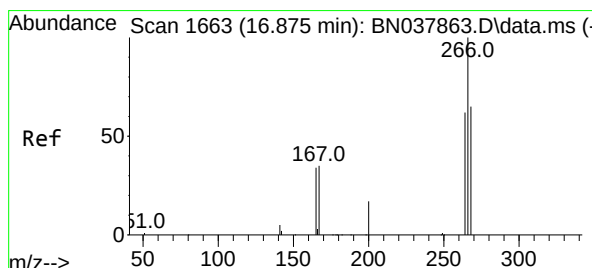
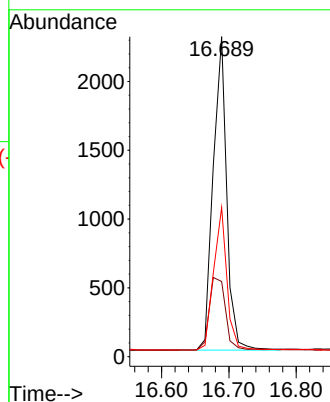
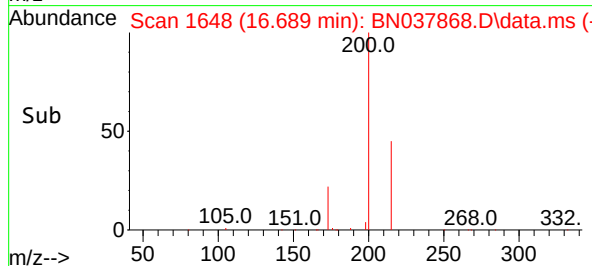
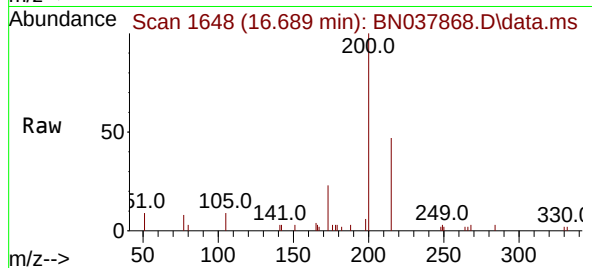




#23
Atrazine
Concen: 0.396 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

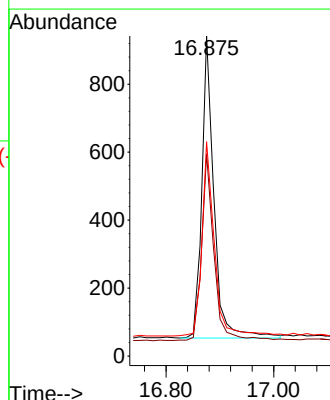
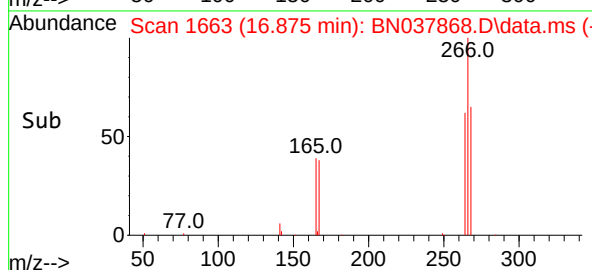
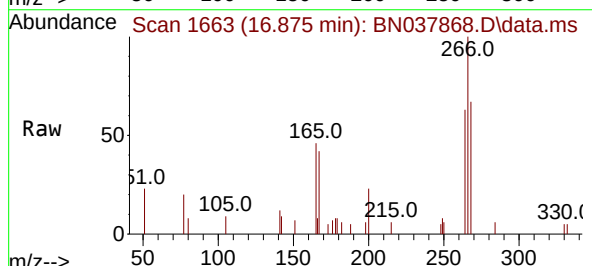
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

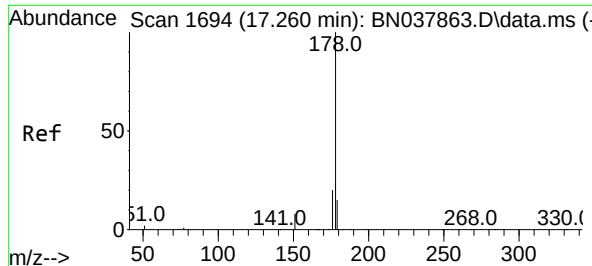
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.5	18.3	27.5
215	46.6	38.6	58.0



#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.8	50.9	76.3
268	66.0	54.3	81.5





#25

Phenanthrene

Concen: 0.411 ng

RT: 17.260 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

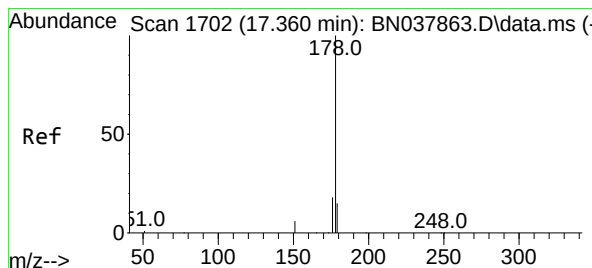
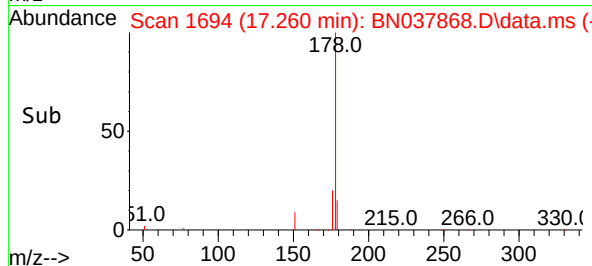
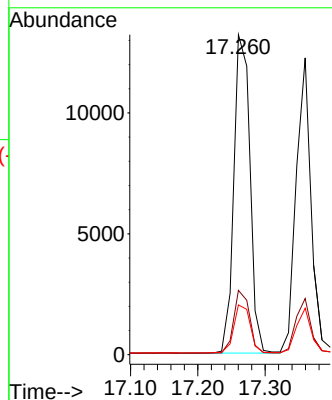
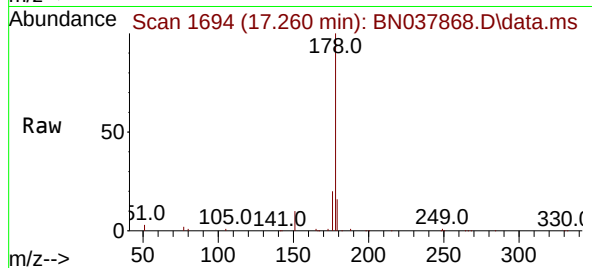
Tgt Ion:178 Resp: 22020

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.408 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

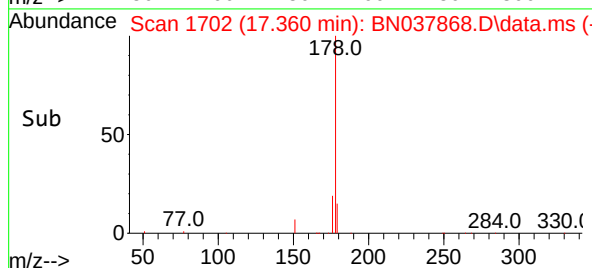
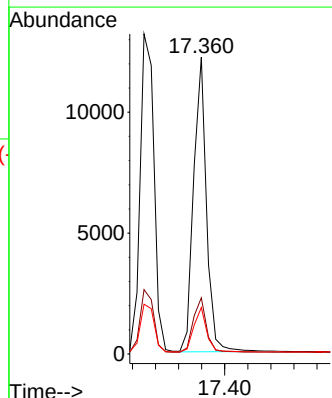
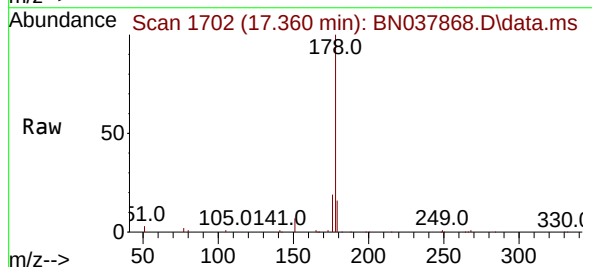
Tgt Ion:178 Resp: 18967

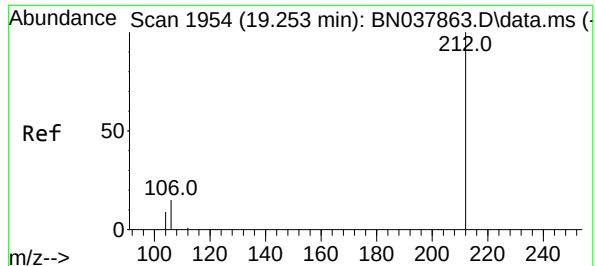
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

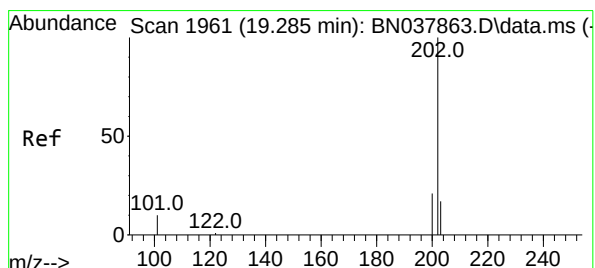
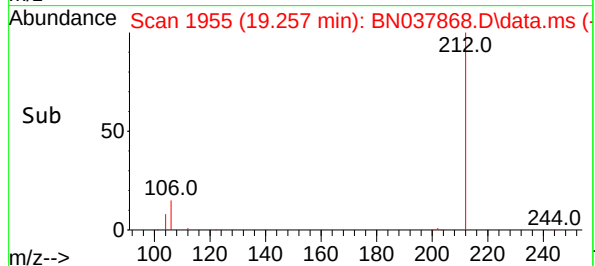
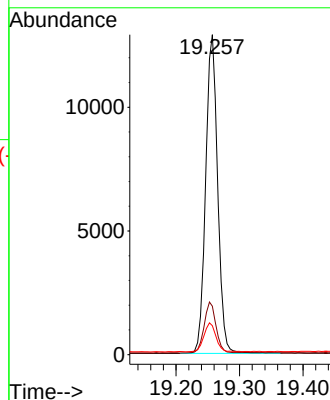
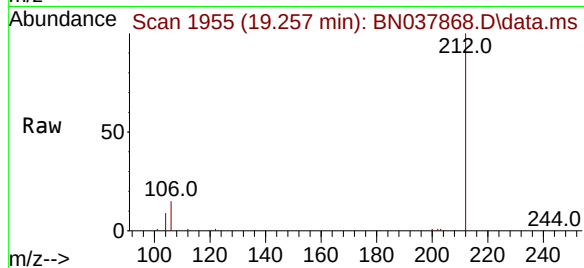
Tgt Ion:212 Resp: 16910

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

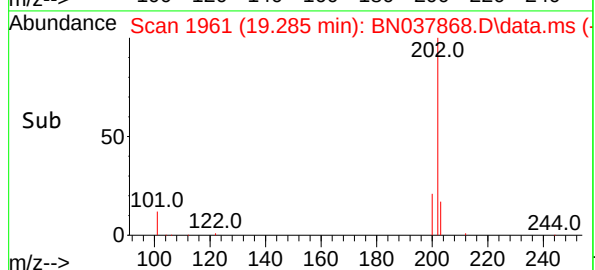
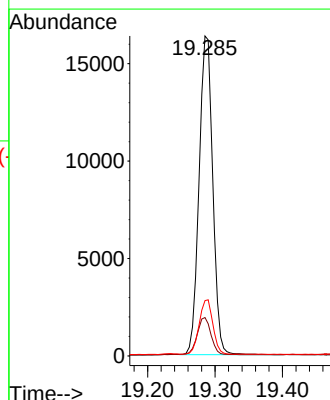
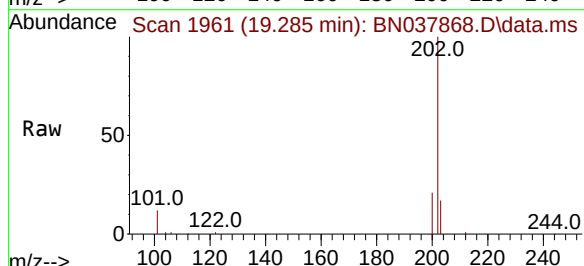
Tgt Ion:202 Resp: 23044

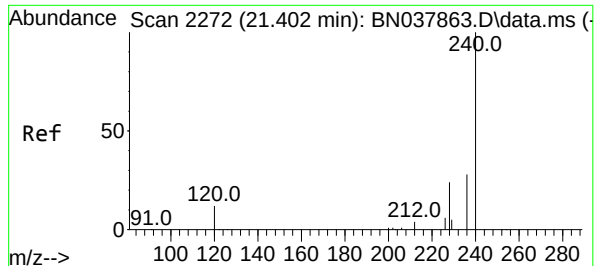
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

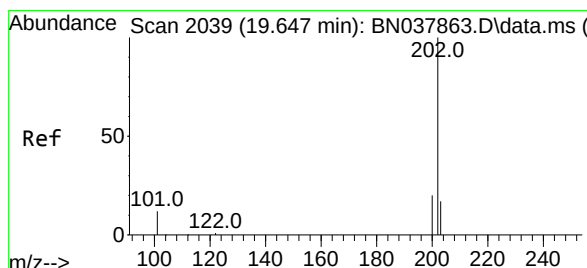
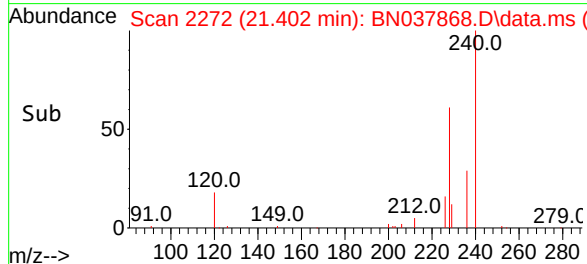
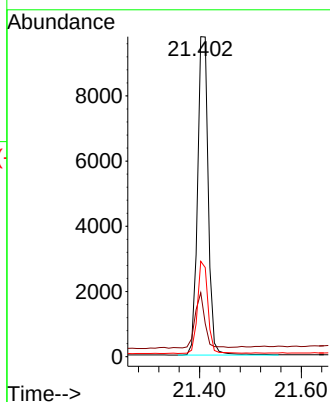
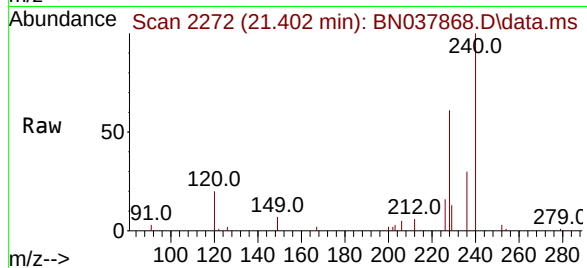
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 20.0 11.4 17.2#

236 29.8 23.0 34.6



#30

Pyrene

Concen: 0.402 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

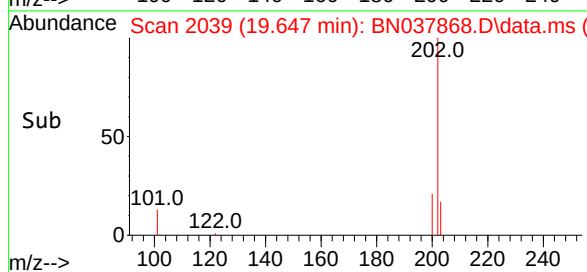
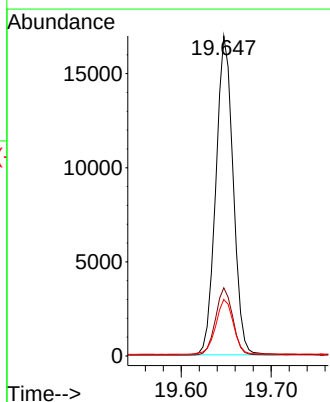
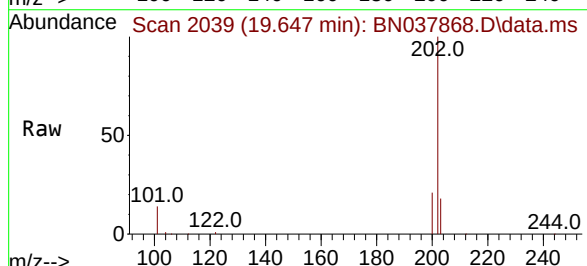
Tgt Ion:202 Resp: 22563

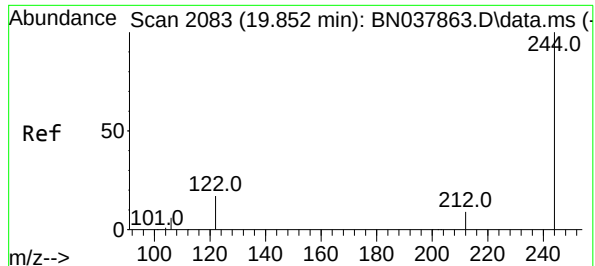
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 0.482 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

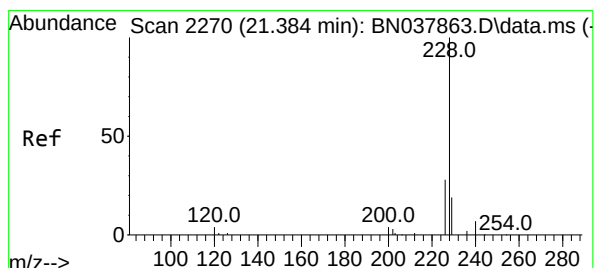
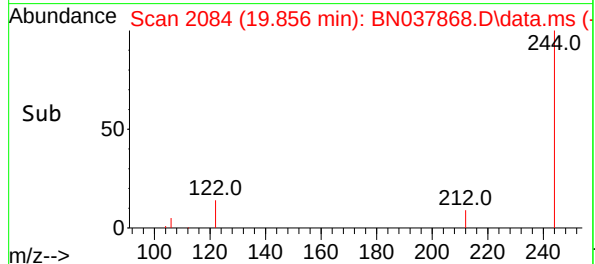
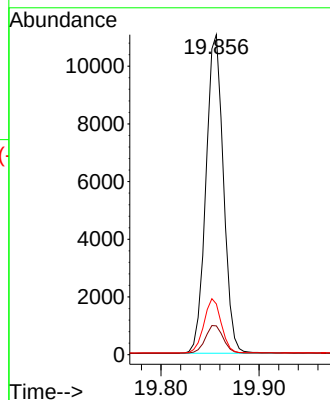
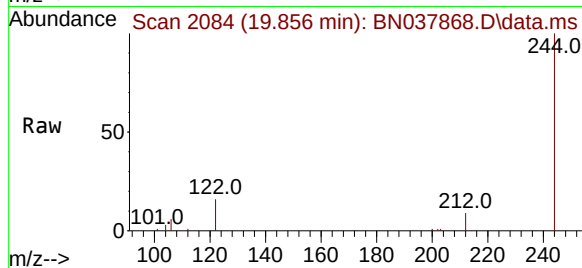
Tgt Ion:244 Resp: 13646

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

122 15.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.411 ng

RT: 21.393 min Scan# 2271

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

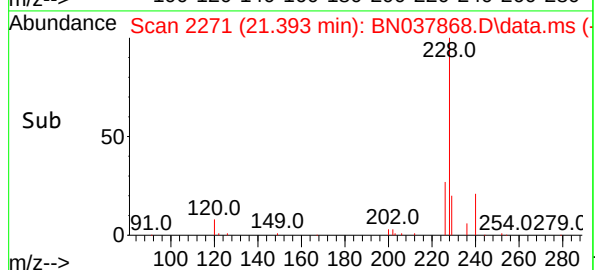
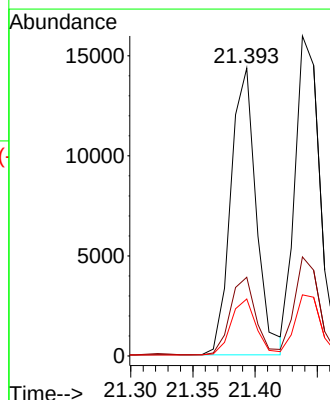
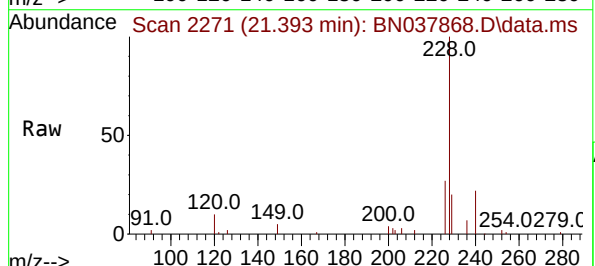
Tgt Ion:228 Resp: 20398

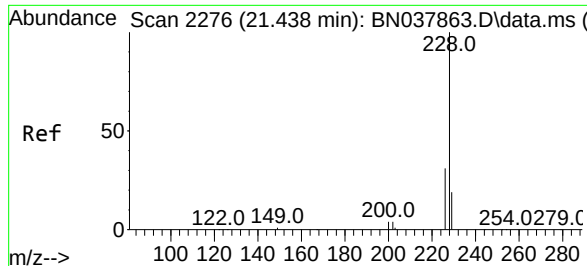
Ion Ratio Lower Upper

228 100

226 27.3 22.6 33.8

229 19.8 15.6 23.4





#33

Chrysene

Concen: 0.414 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

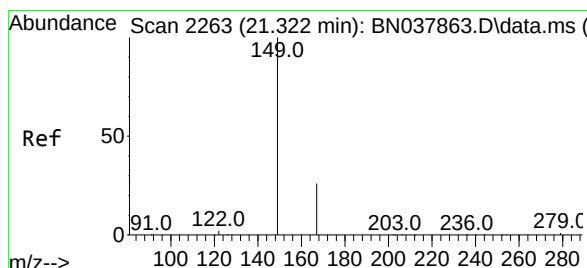
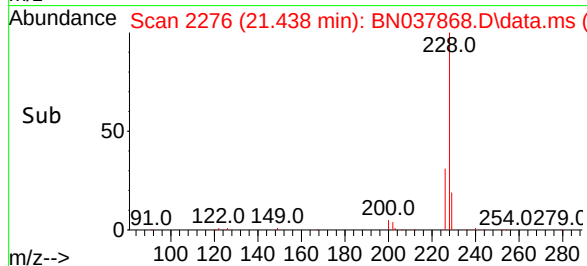
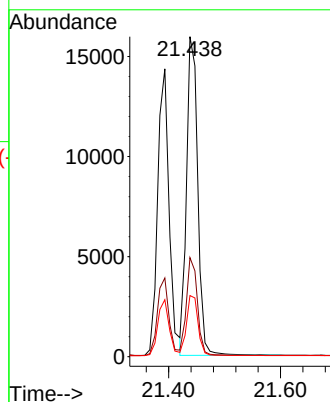
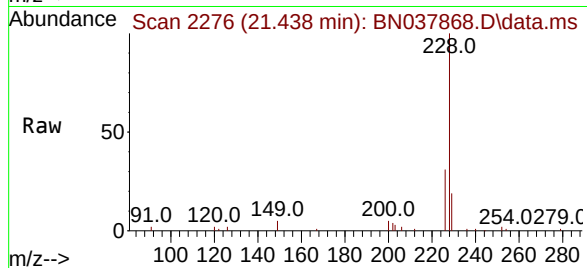
Tgt Ion:228 Resp: 22204

Ion Ratio Lower Upper

228 100

226 31.0 24.6 37.0

229 19.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.404 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

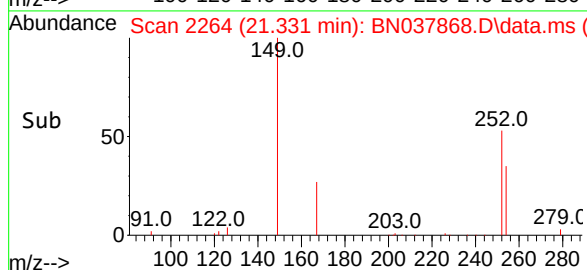
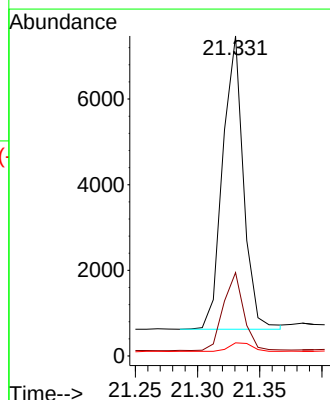
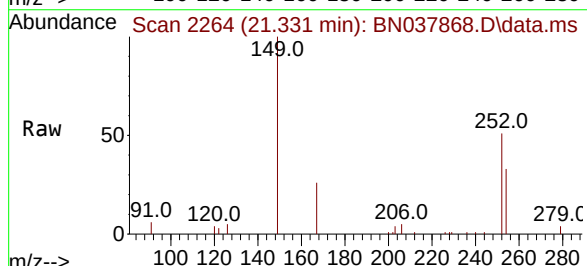
Tgt Ion:149 Resp: 7939

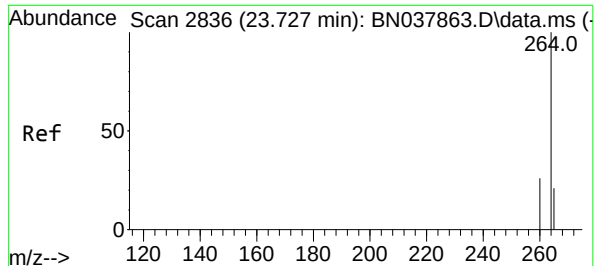
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

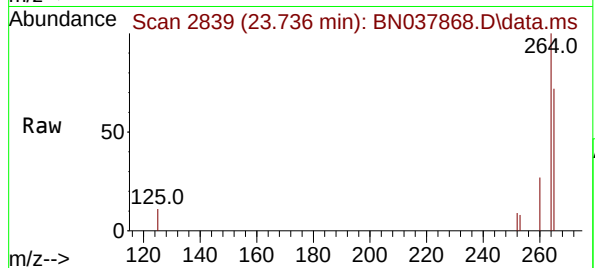
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



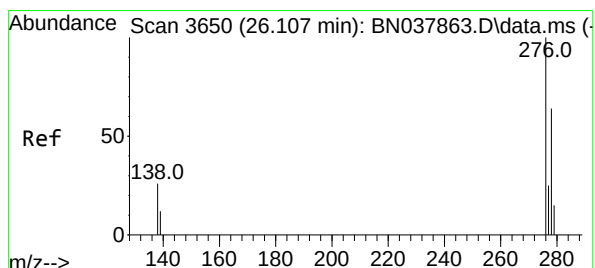
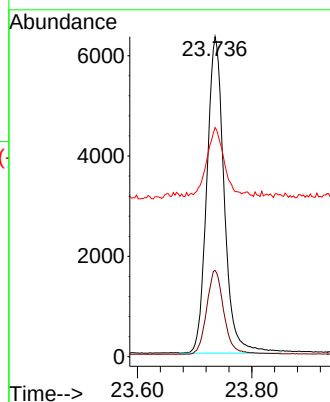
Tgt Ion:264 Resp: 13265

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 71.6 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

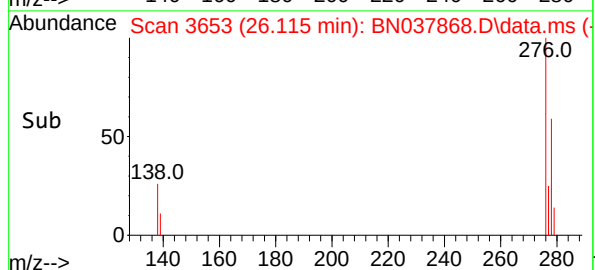
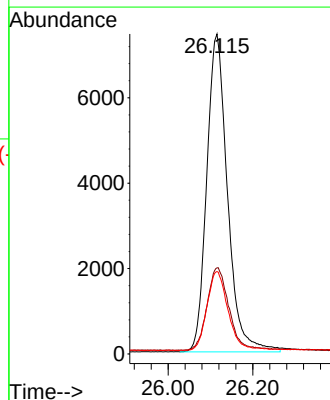
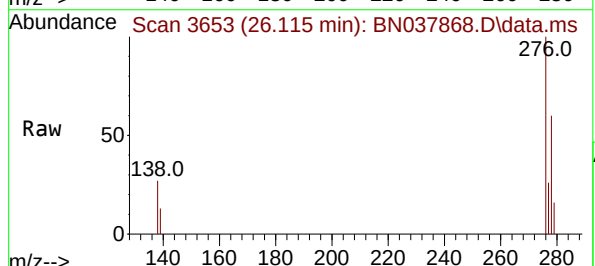
Tgt Ion:276 Resp: 25340

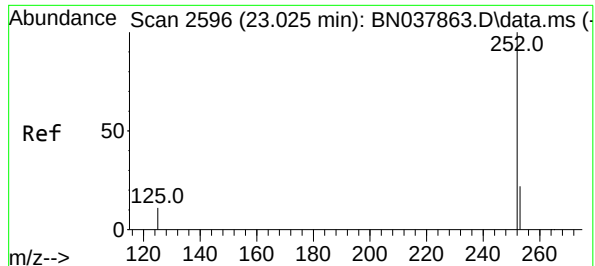
Ion Ratio Lower Upper

276 100

138 27.5 21.4 32.0

277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.031 min Scan# 2

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

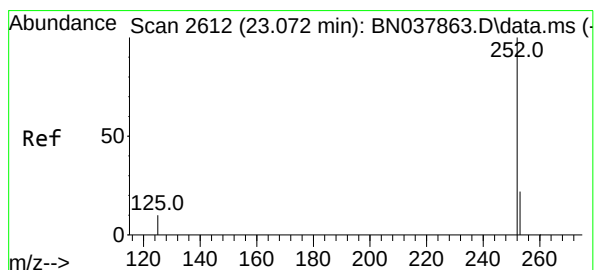
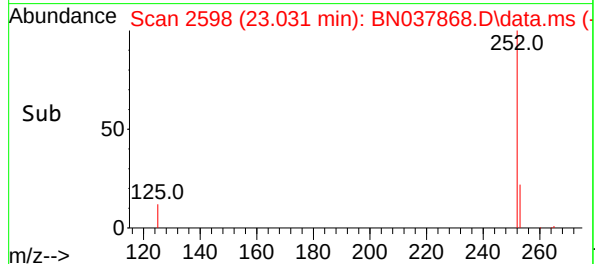
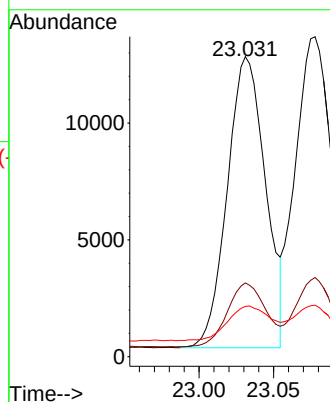
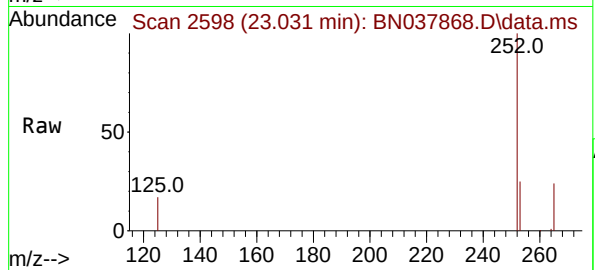
Tgt Ion:252 Resp: 22193

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 16.8 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.415 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

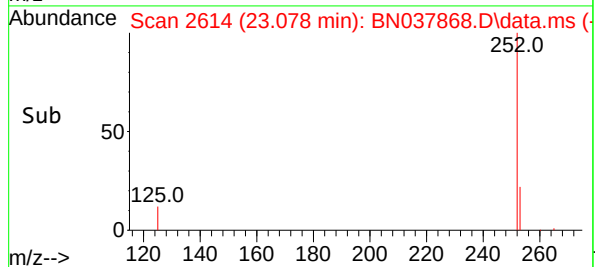
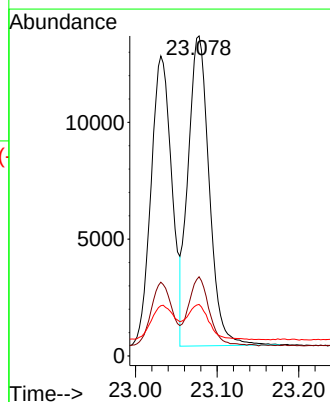
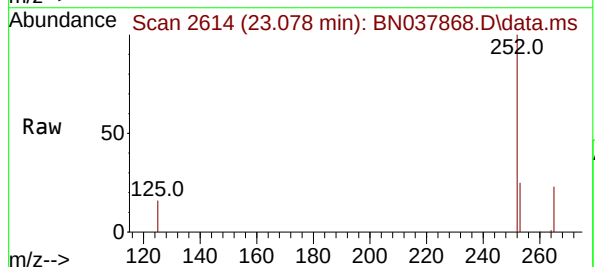
Tgt Ion:252 Resp: 23886

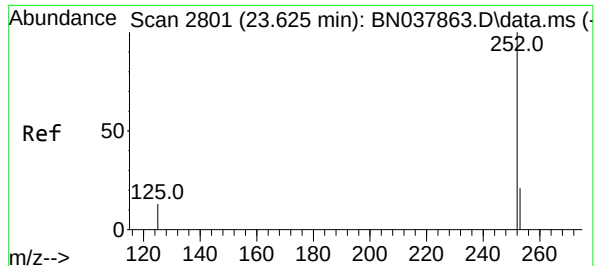
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 23.633 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

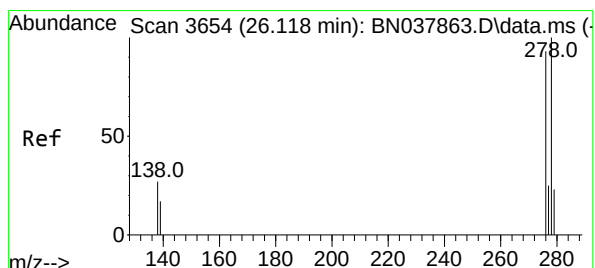
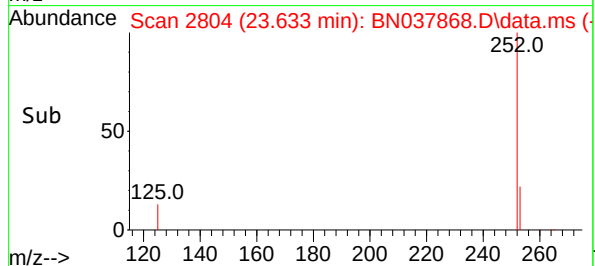
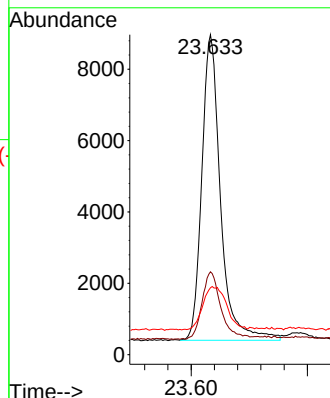
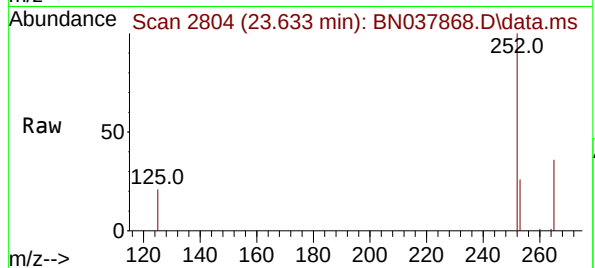
Tgt Ion:252 Resp: 19091

Ion Ratio Lower Upper

252 100

253 25.9 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 26.130 min Scan# 3658

Delta R.T. 0.012 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

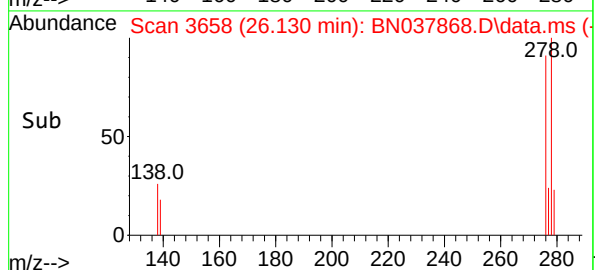
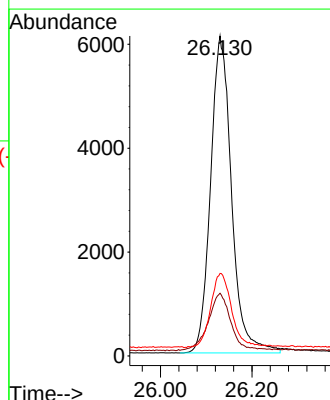
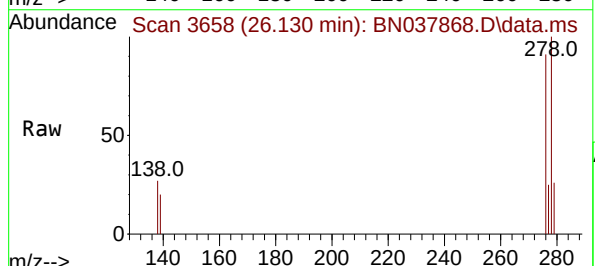
Tgt Ion:278 Resp: 19441

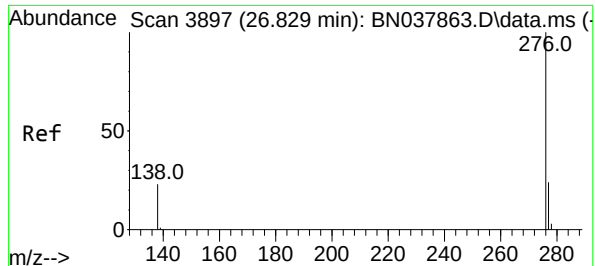
Ion Ratio Lower Upper

278 100

139 19.6 15.4 23.2

279 25.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037868.D

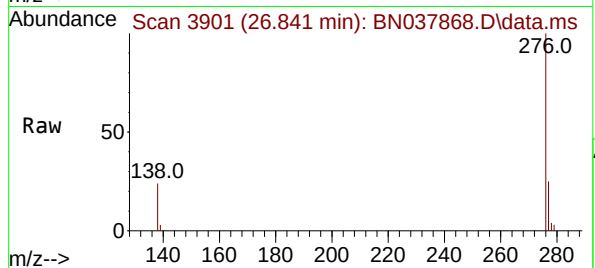
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



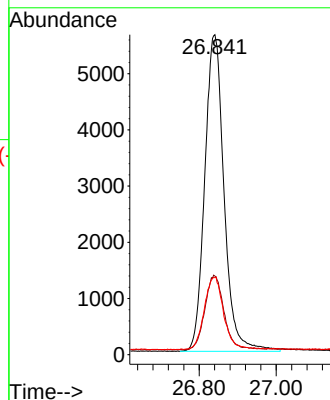
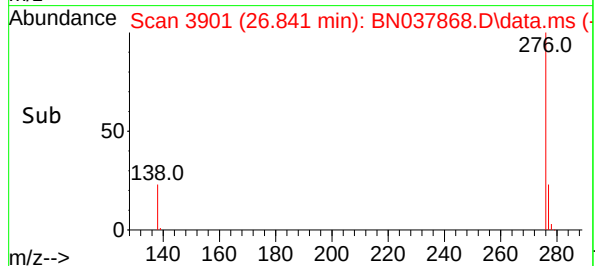
Tgt Ion:276 Resp: 19570

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	1,4-Dioxane	0.406	0.484	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.540	0.551	-2.0	106	0.00
4 S	2-Fluorophenol	0.913	0.898	1.6	105	0.00
5 S	Phenol-d6	1.199	1.144	4.6	102	0.00
6	bis(2-Chloroethyl)ether	1.113	1.225	-10.1	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.305	0.337	-10.5	119	0.00
9	Naphthalene	1.102	1.138	-3.3	111	0.01
10	Hexachlorobutadiene	0.188	0.201	-6.9	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.587	-5.6	121	0.00
12	2-Methylnaphthalene	0.720	0.675	6.2	103	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.152	0.131	13.8	99	0.00
15 S	2-Fluorobiphenyl	1.638	1.984	-21.1	130	0.01
16	Acenaphthylene	1.816	1.984	-9.3	122	0.00
17	Acenaphthene	1.294	1.312	-1.4	112	0.00
18	Fluorene	1.565	1.581	-1.0	111	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	106	0.00
21	4-Bromophenyl-phenylether	0.261	0.255	2.3	107	0.00
22	Hexachlorobenzene	0.316	0.335	-6.0	112	0.00
23	Atrazine	0.199	0.196	1.5	117	0.00
24	Pentachlorophenol	0.108	0.086	20.4	95	0.00
25	Phenanthrene	1.316	1.353	-2.8	112	0.00
26	Anthracene	1.142	1.165	-2.0	116	0.00
27 SURR	Fluoranthene-d10	1.006	1.039	-3.3	120	0.00
28	Fluoranthene	1.450	1.416	2.3	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
30	Pyrene	1.579	1.588	-0.6	109	0.00
31 S	Terphenyl-d14	0.797	0.961	-20.6	133	0.00
32	Benzo(a)anthracene	1.398	1.436	-2.7	116	0.00
33	Chrysene	1.512	1.563	-3.4	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.559	-1.1	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.910	-4.5	121	0.00
37	Benzo(b)fluoranthene	1.725	1.673	3.0	108	0.00
38	Benzo(k)fluoranthene	1.736	1.801	-3.7	119	0.00
39 C	Benzo(a)pyrene	1.364	1.439	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	1.427	1.466	-2.7	119	0.01
41	Benzo(g,h,i)perylene	1.499	1.475	1.6	111	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2	1,4-Dioxane	0.400	0.477	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.400	0.408	-2.0	106	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	105	0.00
5 S	Phenol-d6	0.400	0.382	4.5	102	0.00
6	bis(2-Chloroethyl)ether	0.400	0.440	-10.0	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.442	-10.5	119	0.00
9	Naphthalene	0.400	0.413	-3.2	111	0.01
10	Hexachlorobutadiene	0.400	0.428	-7.0	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.423	-5.7	121	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	103	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.346	13.5	99	0.00
15 S	2-Fluorobiphenyl	0.400	0.485	-21.2	130	0.01
16	Acenaphthylene	0.400	0.437	-9.2	122	0.00
17	Acenaphthene	0.400	0.406	-1.5	112	0.00
18	Fluorene	0.400	0.404	-1.0	111	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.418	-4.5	106	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	107	0.00
22	Hexachlorobenzene	0.400	0.424	-6.0	112	0.00
23	Atrazine	0.400	0.396	1.0	117	0.00
24	Pentachlorophenol	0.400	0.316	21.0	95	0.00
25	Phenanthrene	0.400	0.411	-2.7	112	0.00
26	Anthracene	0.400	0.408	-2.0	116	0.00
27 SURR	Fluoranthene-d10	0.400	0.413	-3.2	120	0.00
28	Fluoranthene	0.400	0.391	2.3	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	105	0.00
30	Pyrene	0.400	0.402	-0.5	109	0.00
31 S	Terphenyl-d14	0.400	0.482	-20.5	133	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	116	0.00
33	Chrysene	0.400	0.414	-3.5	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.404	-1.0	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	121	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.415	-3.7	119	0.00
39 C	Benzo(a)pyrene	0.400	0.422	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	119	0.01
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	111	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3015
 Instrument ID: BNA_N Calibration Date/Time: 09/24/2025 09:54
 Lab File ID: BN037871.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.502		-9.7	20.0
Fluoranthene-d10	1.006	0.885		-12.0	20.0
2-Fluorophenol	0.913	0.826		-9.5	20.0
Phenol-d6	1.199	1.076		-10.3	20.0
Nitrobenzene-d5	0.305	0.287		-5.9	20.0
Naphthalene	1.102	1.058		-4.0	20.0
2-Methylnaphthalene	0.720	0.669		-7.1	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
Acenaphthylene	1.816	1.680		-7.5	20.0
Acenaphthene	1.294	1.213		-6.3	20.0
Fluorene	1.565	1.505		-3.8	20.0
2,4,6-Tribromophenol	0.152	0.122		-19.7	20.0
Phenanthrene	1.316	1.208		-8.2	20.0
Anthracene	1.142	1.005		-12.0	20.0
Fluoranthene	1.450	1.301		-10.3	20.0
Pyrene	1.579	1.447		-8.4	20.0
Terphenyl-d14	0.797	0.725		-9.0	20.0
Benzo (a) anthracene	1.398	1.258		-10.0	20.0
Chrysene	1.512	1.452		-4.0	20.0
Benzo (b) fluoranthene	1.725	1.588		-7.9	20.0
Benzo (k) fluoranthene	1.736	1.645		-5.2	20.0
Benzo (a) pyrene	1.364	1.234		-9.5	20.0
Indeno (1,2,3-cd) pyrene	1.828	1.795		-1.8	20.0
Dibenzo (a,h) anthracene	1.427	1.407		-1.4	20.0
Benzo (g,h,i) perylene	1.499	1.464		-2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
 Data File : BN037871.D
 Acq On : 24 Sep 2025 09:54
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

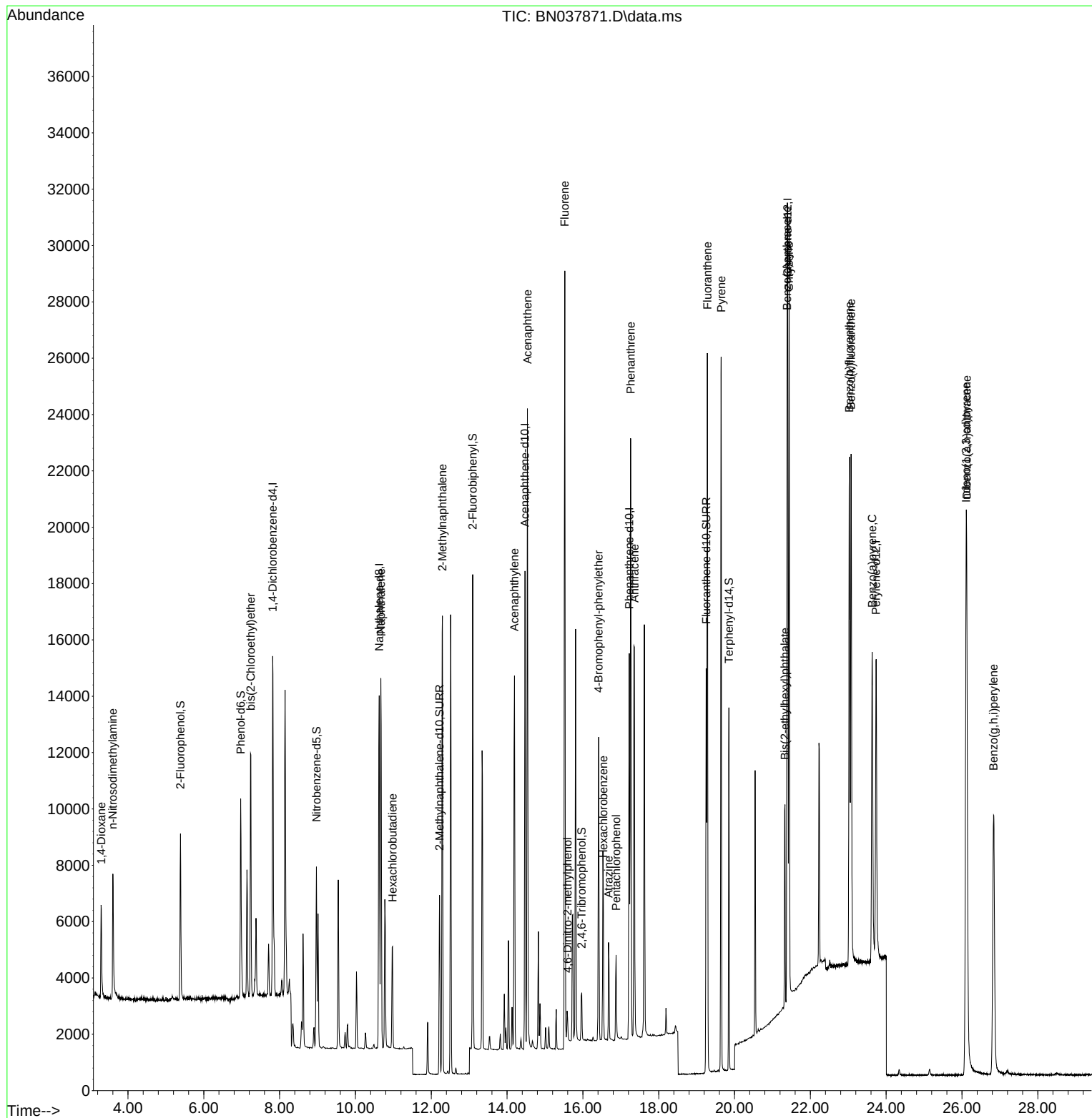
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	6027	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16875	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8790	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17707	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15660	0.400	ng	0.00
35) Perylene-d12	23.735	264	14846	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4980	0.362	ng	0.00
5) Phenol-d6	6.973	99	6488	0.359	ng	0.00
8) Nitrobenzene-d5	8.971	82	4847	0.377	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8473	0.361	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1071	0.321	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	13879	0.386	ng	0.00
27) Fluoranthene-d10	19.252	212	15676	0.352	ng	0.00
31) Terphenyl-d14	19.852	244	11356	0.364	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2525	0.413	ng	97
3) n-Nitrosodimethylamine	3.600	42	3202	0.393	ng	# 88
6) bis(2-Chloroethyl)ether	7.240	93	6421	0.383	ng	99
9) Naphthalene	10.669	128	17858	0.384	ng	100
10) Hexachlorobutadiene	10.978	225	3114	0.393	ng	# 100
12) 2-Methylnaphthalene	12.293	142	11287	0.372	ng	99
16) Acenaphthylene	14.195	152	14763	0.370	ng	99
17) Acenaphthene	14.537	154	10658	0.375	ng	99
18) Fluorene	15.522	166	13226	0.385	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	694	0.373	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4110	0.356	ng	100
22) Hexachlorobenzene	16.540	284	5400	0.386	ng	99
23) Atrazine	16.677	200	2979	0.339	ng	# 87
24) Pentachlorophenol	16.875	266	1599	0.333	ng	95
25) Phenanthrene	17.260	178	21385	0.367	ng	100
26) Anthracene	17.359	178	17791	0.352	ng	100
28) Fluoranthene	19.285	202	23036	0.359	ng	99
30) Pyrene	19.647	202	22662	0.367	ng	100
32) Benzo(a)anthracene	21.384	228	19693	0.360	ng	100
33) Chrysene	21.438	228	22733	0.384	ng	100
34) Bis(2-ethylhexyl)phtha...	21.330	149	7423	0.343	ng	99
36) Indeno(1,2,3-cd)pyrene	26.109	276	26646	0.393	ng	99
37) Benzo(b)fluoranthene	23.028	252	23575	0.368	ng	99
38) Benzo(k)fluoranthene	23.075	252	24415	0.379	ng	99
39) Benzo(a)pyrene	23.630	252	18325	0.362	ng	100
40) Dibenzo(a,h)anthracene	26.124	278	20887	0.394	ng	99
41) Benzo(g,h,i)perylene	26.835	276	21736	0.391	ng	98

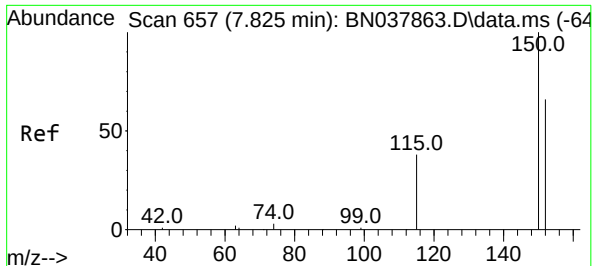
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

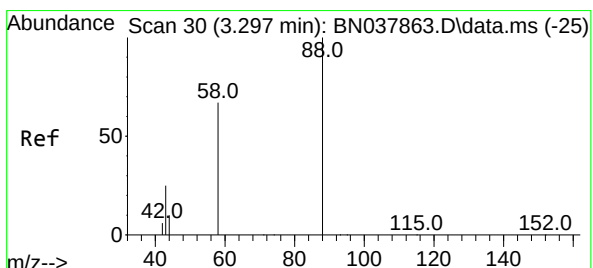
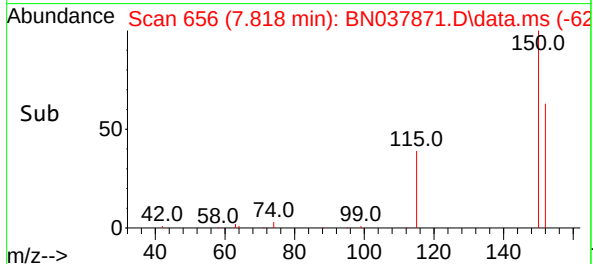
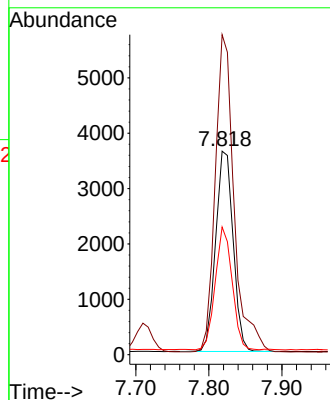
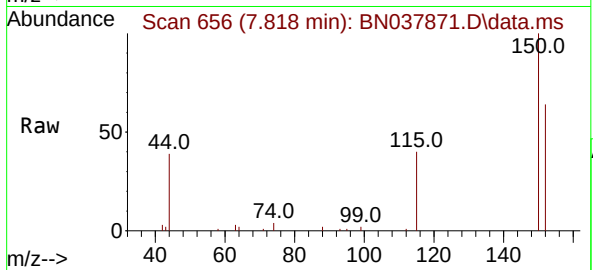




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

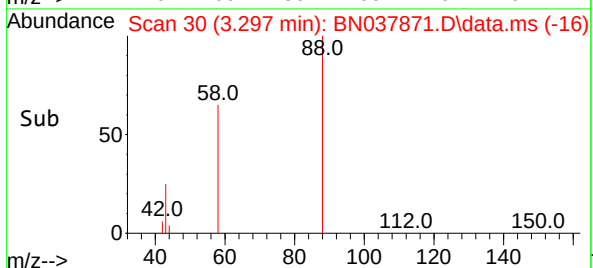
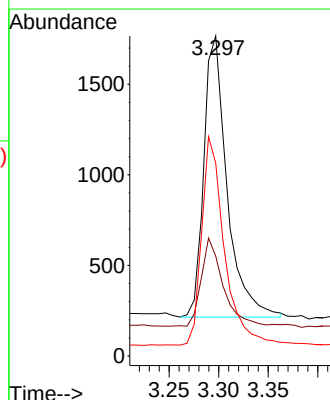
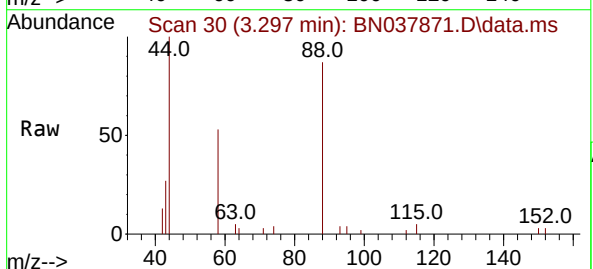
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

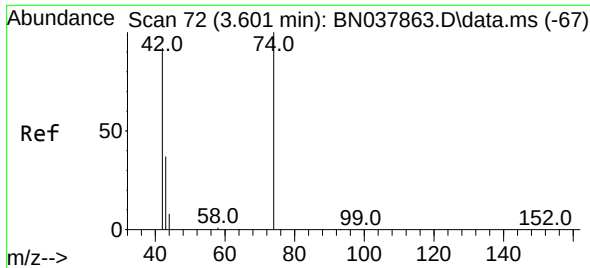
Tgt Ion:152 Resp: 6027
Ion Ratio Lower Upper
152 100
150 157.2 121.0 181.4
115 62.8 47.4 71.0



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 88 Resp: 2525
Ion Ratio Lower Upper
88 100
43 29.5 26.6 39.8
58 72.2 58.9 88.3

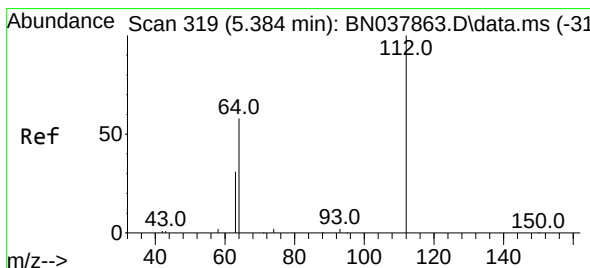
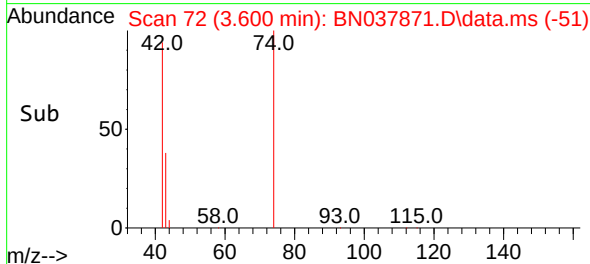
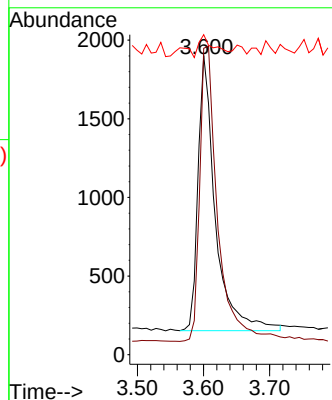
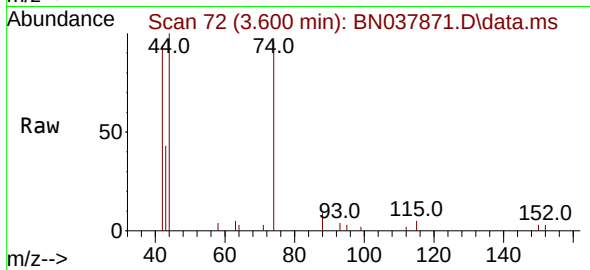




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

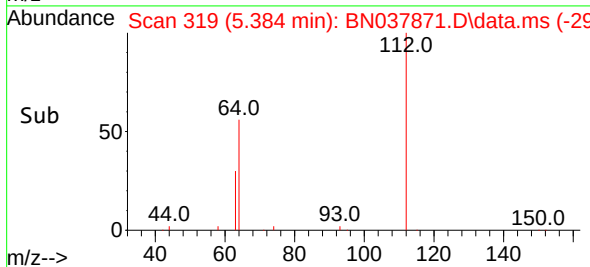
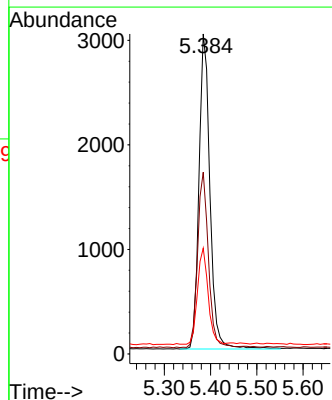
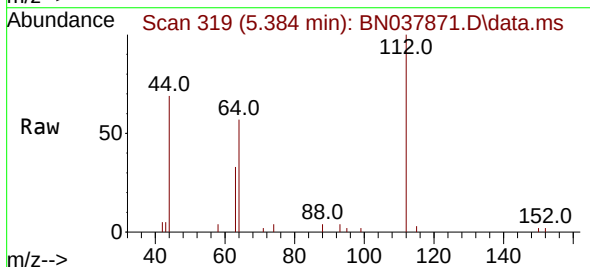
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

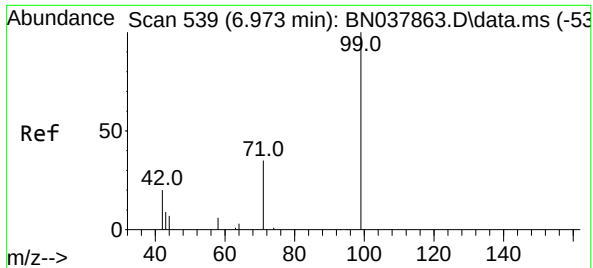
Tgt Ion: 42 Resp: 3202
Ion Ratio Lower Upper
42 100
74 111.2 93.4 140.0
44 7.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion: 112 Resp: 4980
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.6 24.9 37.3

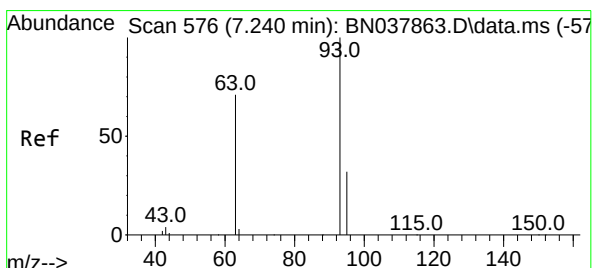
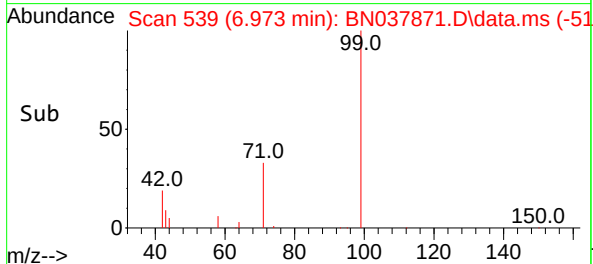
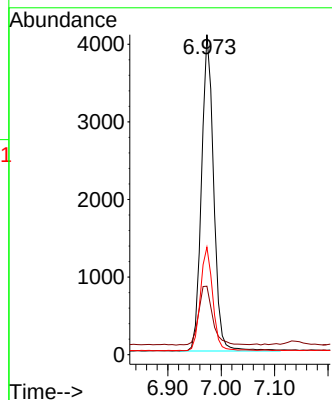
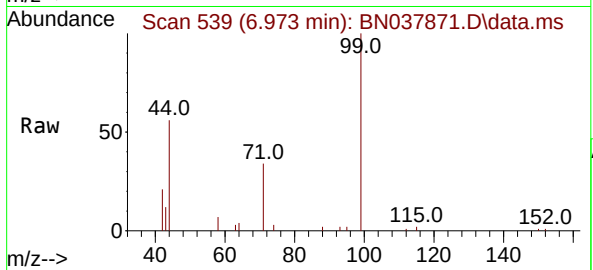




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.973 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

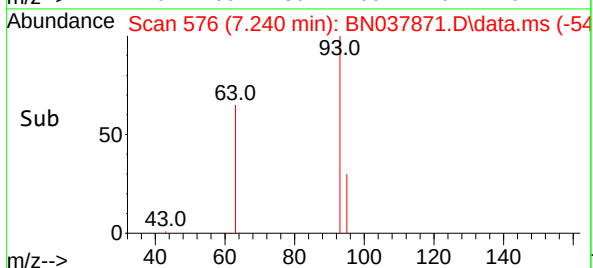
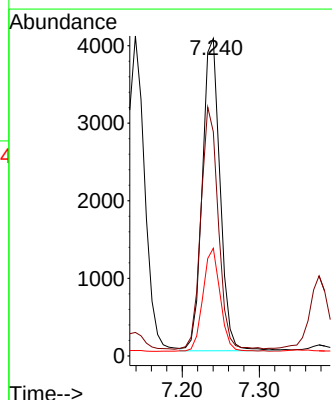
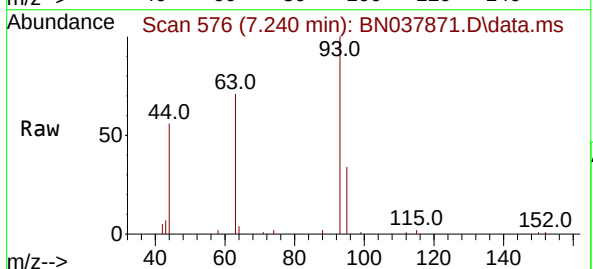
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

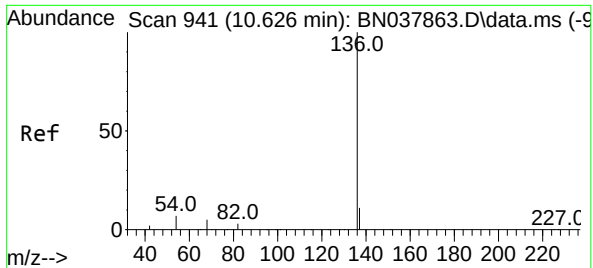
Tgt Ion:	99	Resp:	6488
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	33.0	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	93	Resp:	6421
Ion	Ratio	Lower	Upper
93	100		
63	75.8	60.1	90.1
95	32.2	25.4	38.2

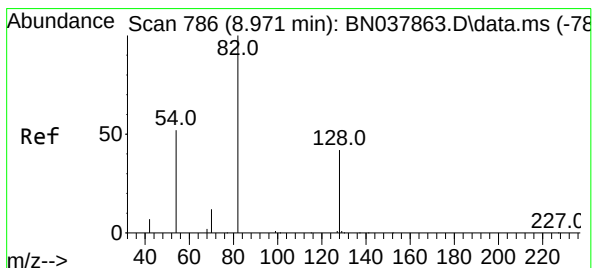
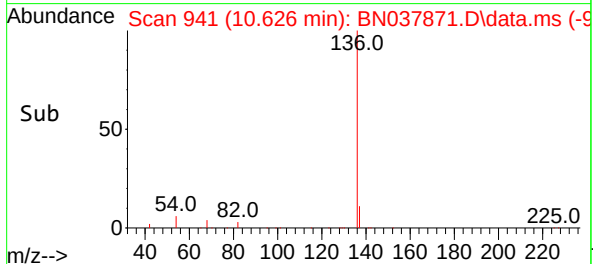
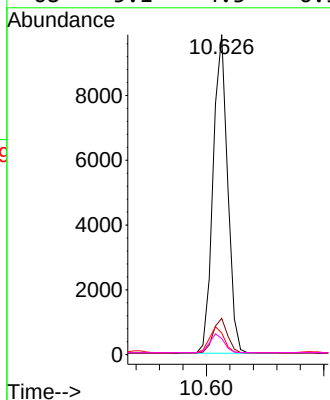
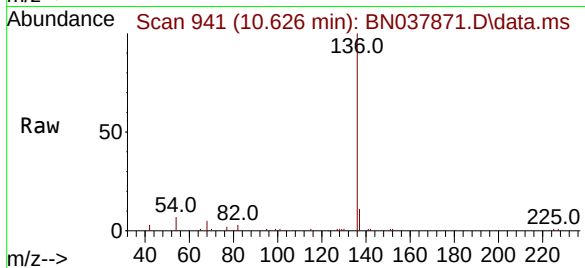




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

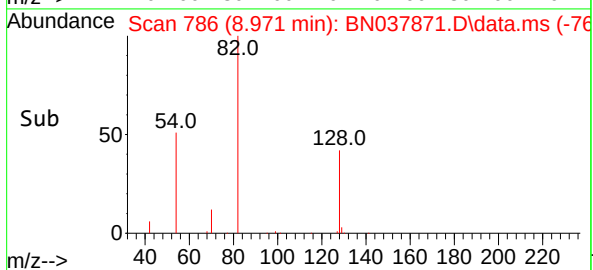
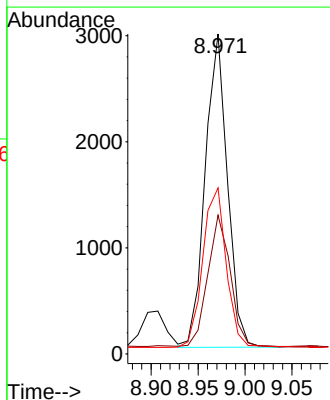
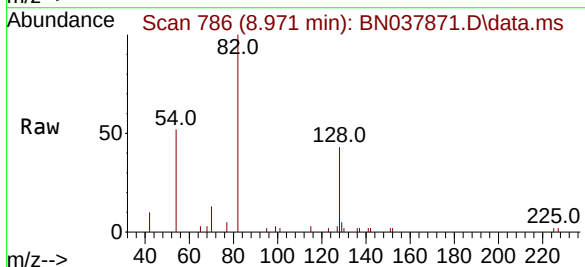
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

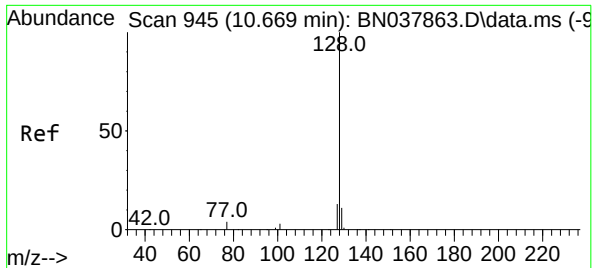
Tgt Ion:	136	Resp:	16875
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	6.8	5.8	8.8
68	5.1	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.377 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	82	Resp:	4847
Ion	Ratio	Lower	Upper
82	100		
128	43.3	34.8	52.2
54	51.9	42.2	63.2

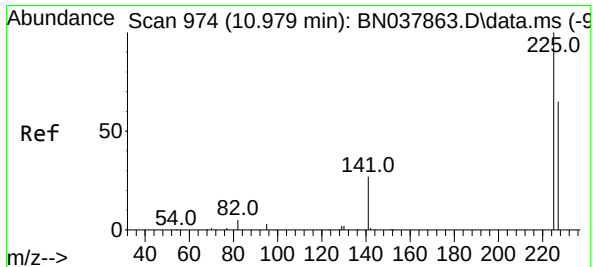
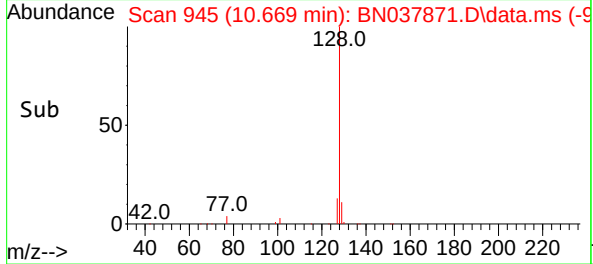
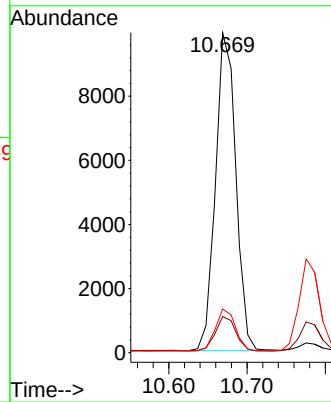
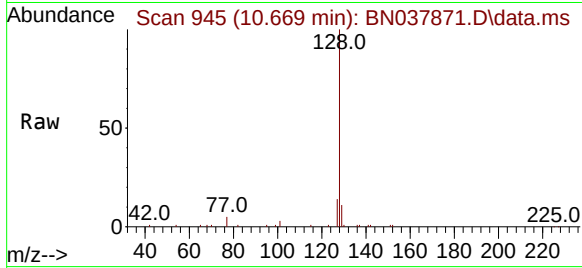




#9
Naphthalene
Concen: 0.384 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

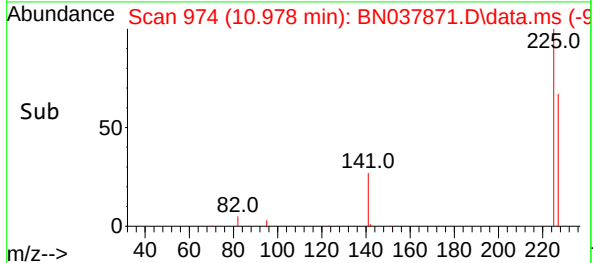
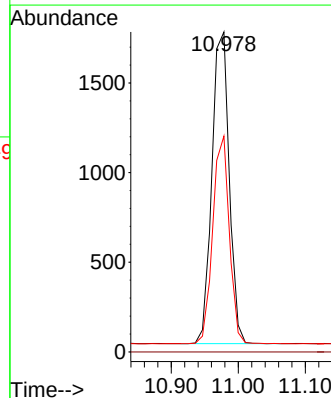
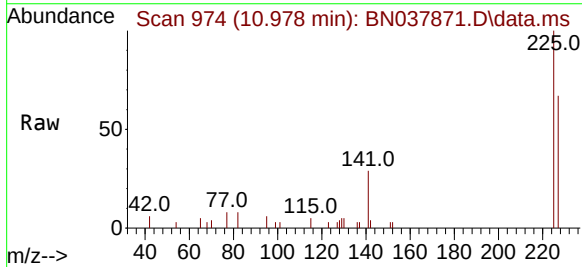
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

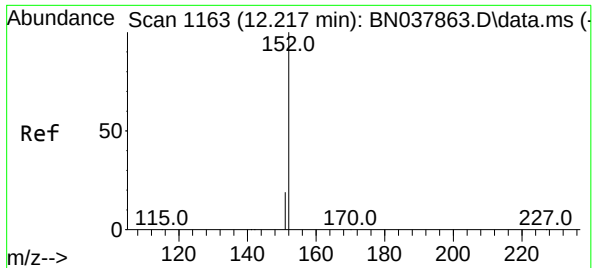
Tgt Ion:	128	Resp:	17858
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.6	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	225	Resp:	3114
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.4	77.2

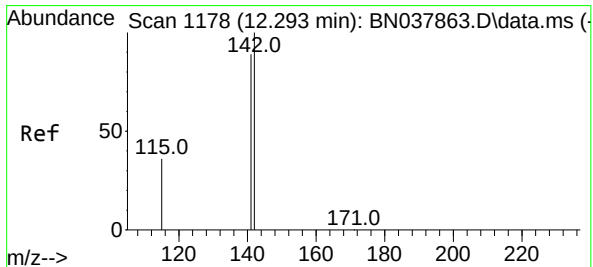
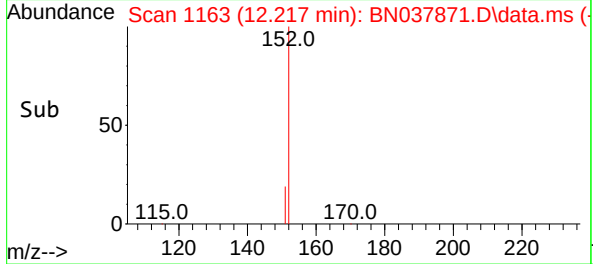
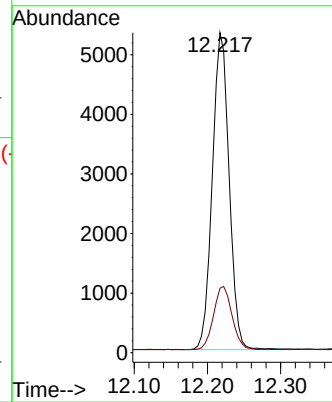
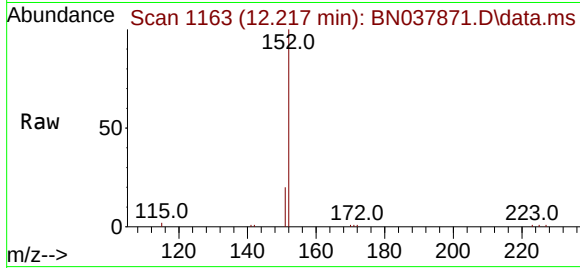




#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

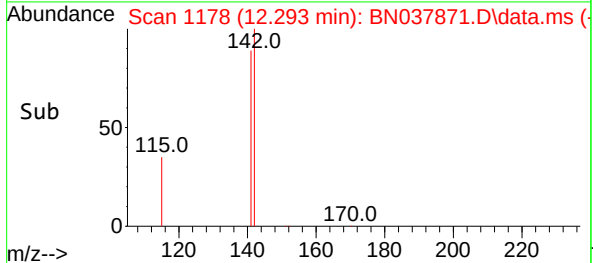
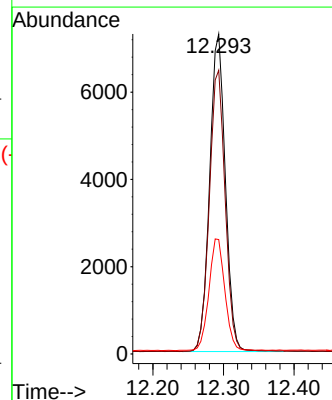
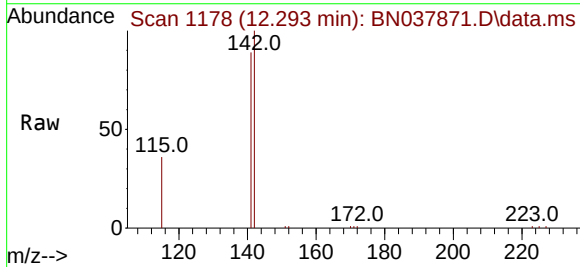
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

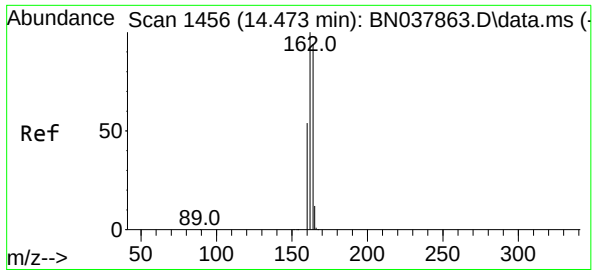
Tgt Ion:152 Resp: 8473
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:142 Resp: 11287
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 35.7 29.7 44.5

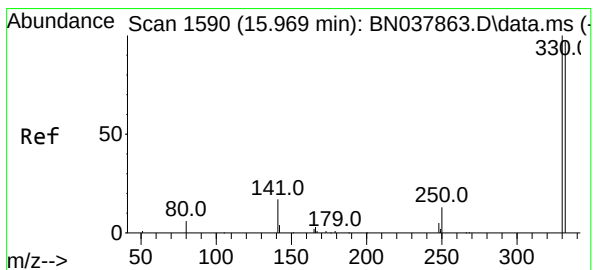
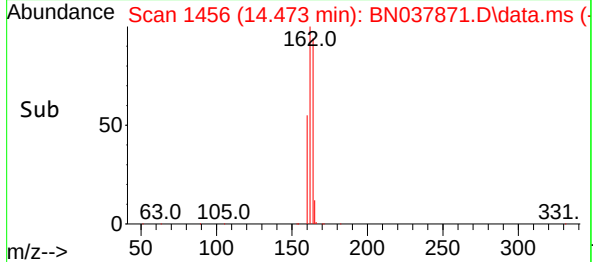
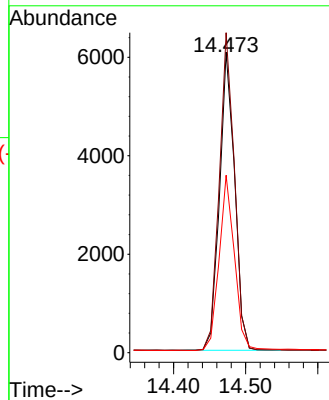
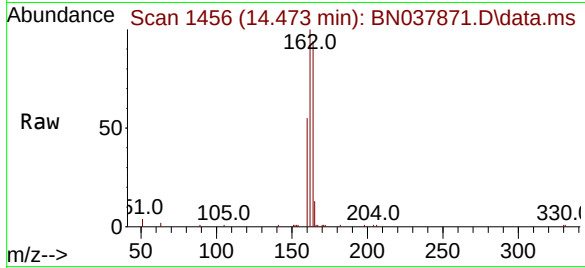




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

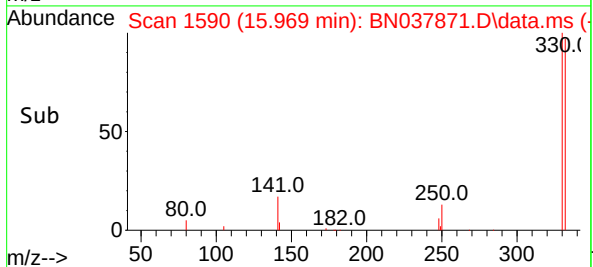
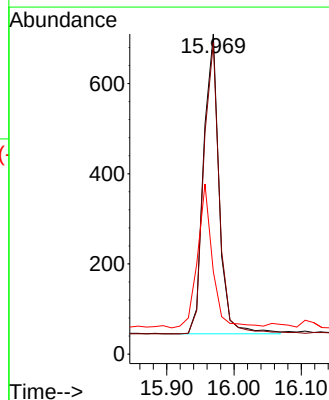
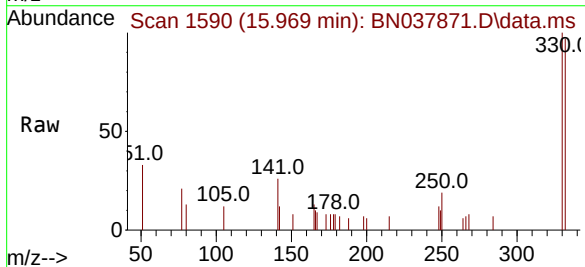
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

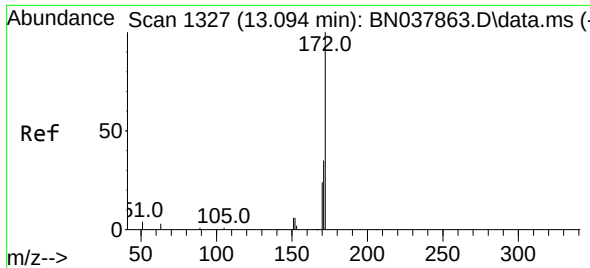
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.8	127.2
160	59.0	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.2	115.8
141	46.7	37.2	55.8

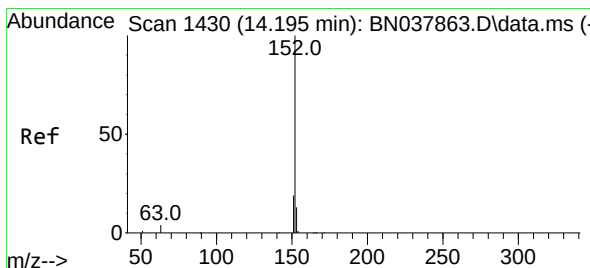
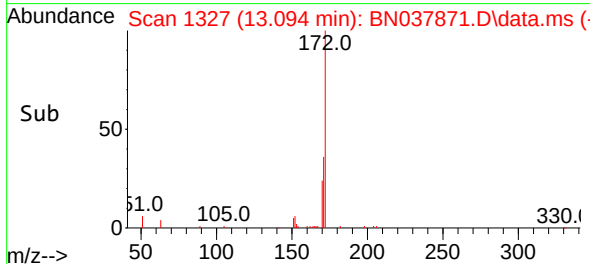
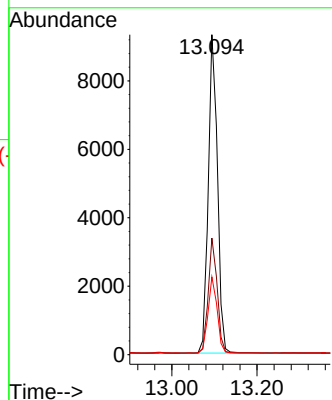
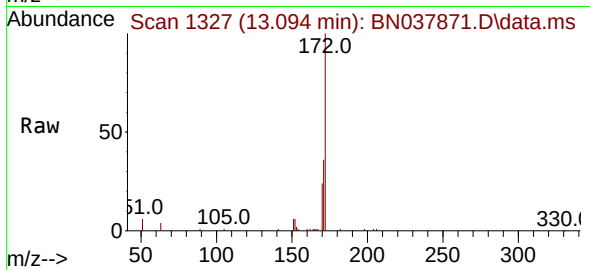




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

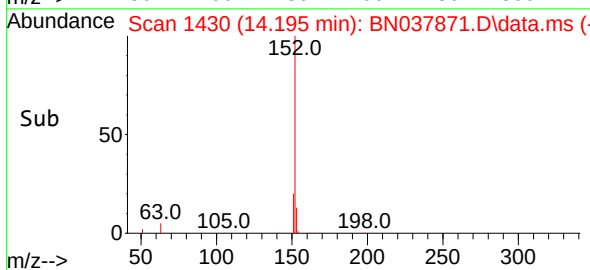
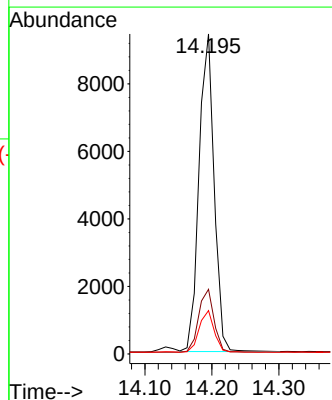
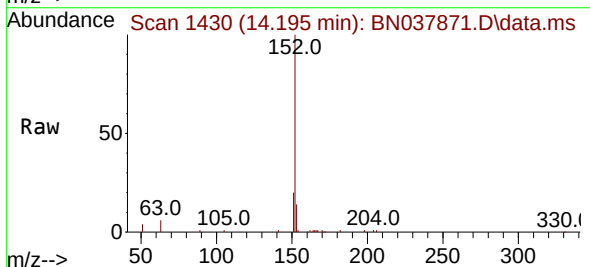
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

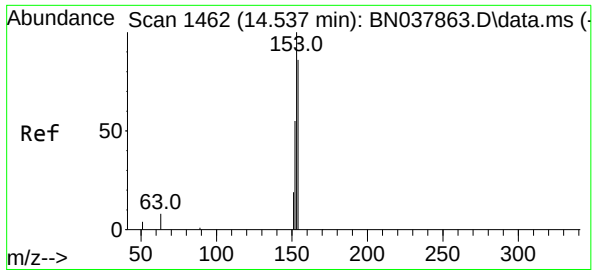
Tgt Ion:	172	Resp:	13879
Ion Ratio	Lower	Upper	
172	100		
171	36.4	28.6	43.0
170	24.3	19.7	29.5



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	152	Resp:	14763
Ion Ratio	Lower	Upper	
152	100		
151	20.2	15.8	23.8
153	13.0	10.5	15.7

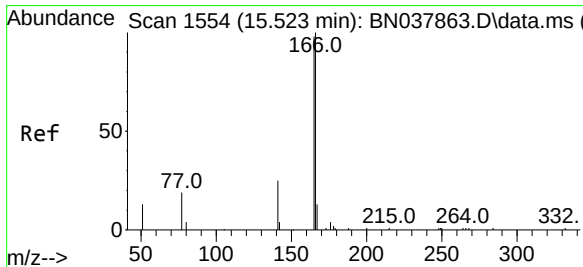
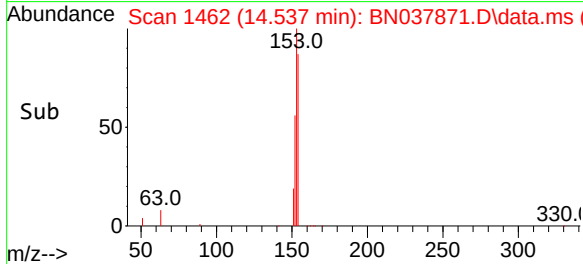
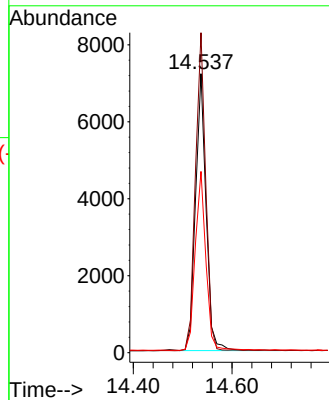
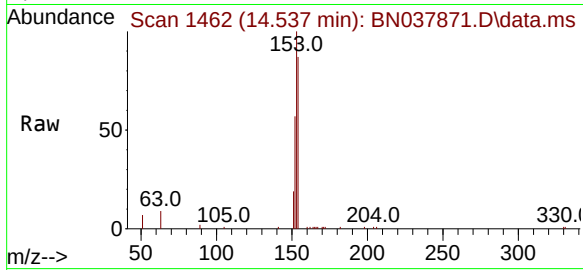




#17
Acenaphthene
Concen: 0.375 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

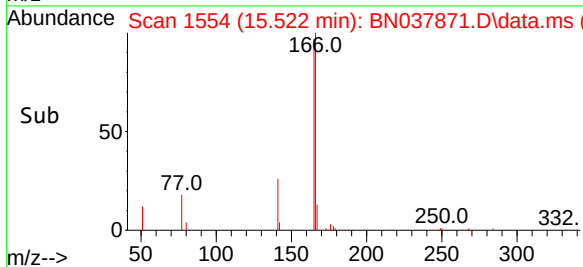
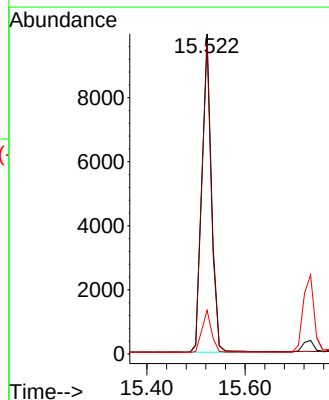
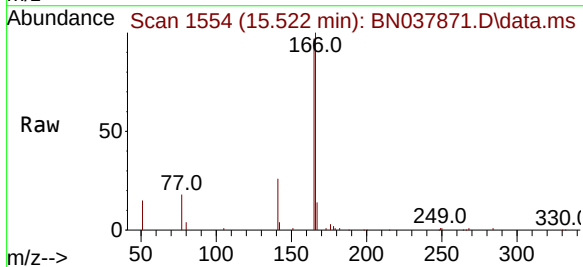
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

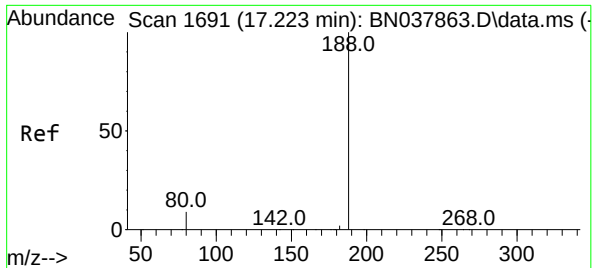
Tgt Ion	154	Resp	10658
Ion Ratio	Lower	Upper	
154	100		
153	112.3	90.5	135.7
152	65.4	51.8	77.8



#18
Fluorene
Concen: 0.385 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	166	Resp	13226
Ion Ratio	Lower	Upper	
166	100		
165	96.2	79.0	118.4
167	13.4	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

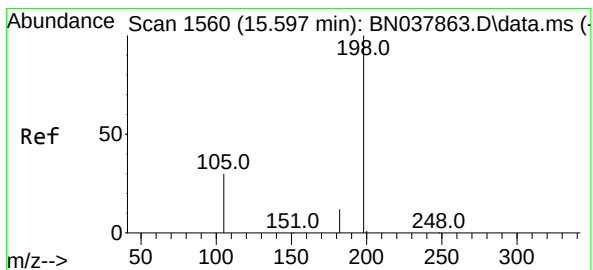
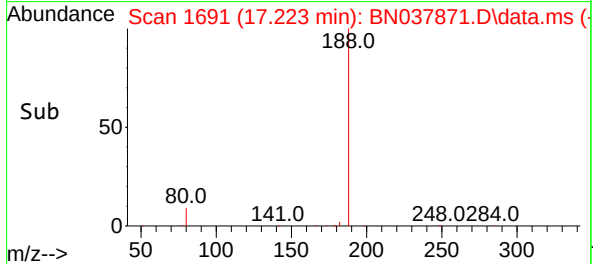
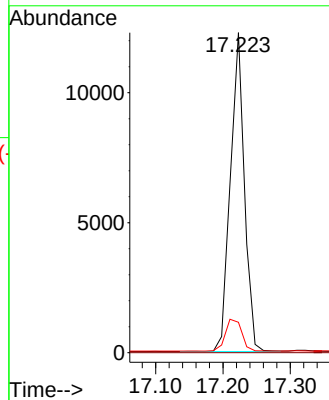
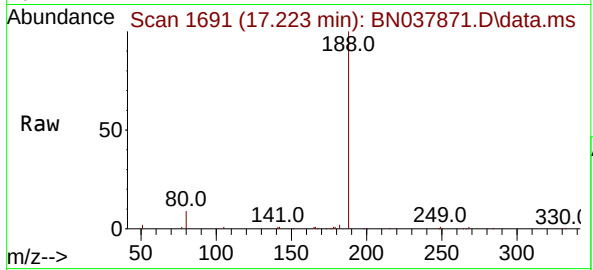
Tgt Ion:188 Resp: 17707

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.373 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

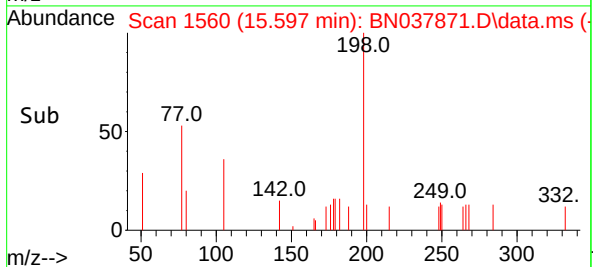
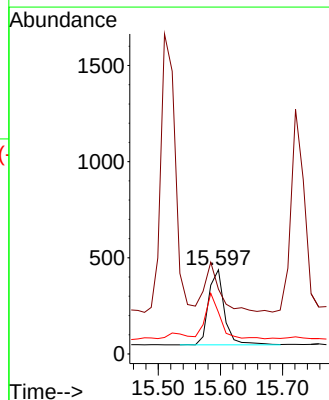
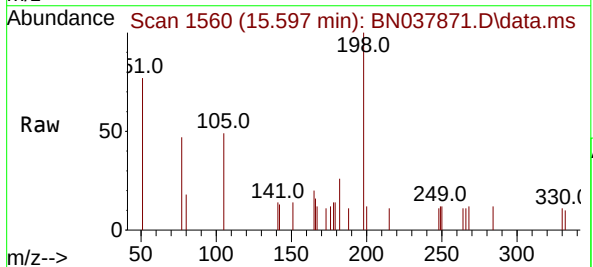
Tgt Ion:198 Resp: 694

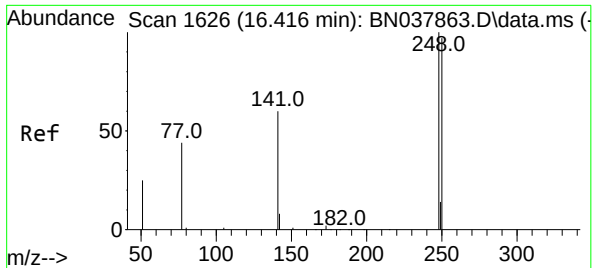
Ion Ratio Lower Upper

198 100

51 76.9 59.1 88.7

105 49.3 41.3 61.9

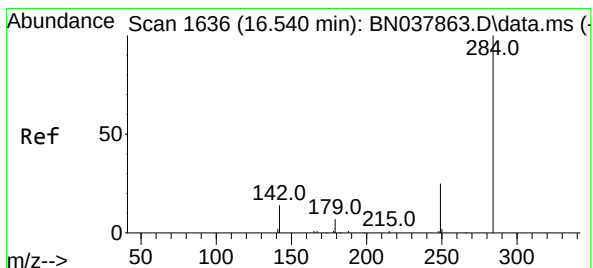
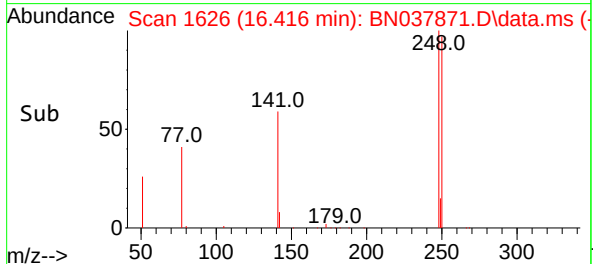
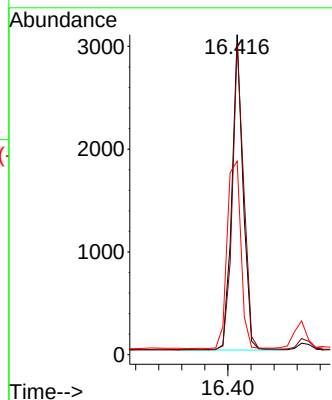
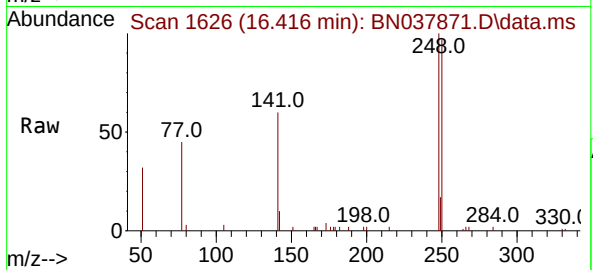




#21
4-Bromophenyl-phenylether
Concen: 0.356 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

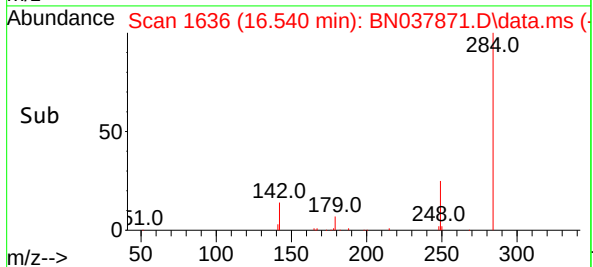
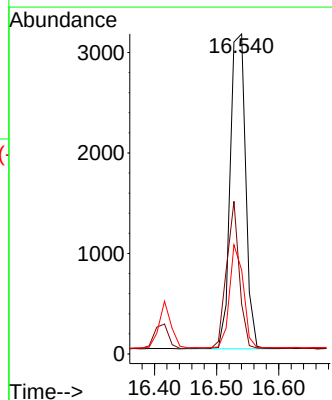
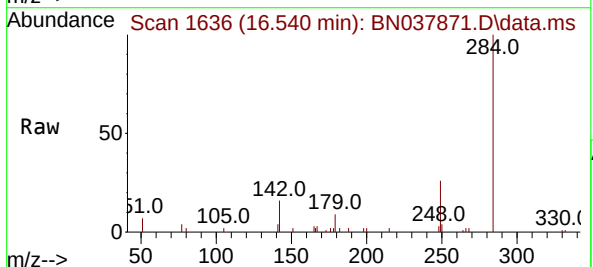
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

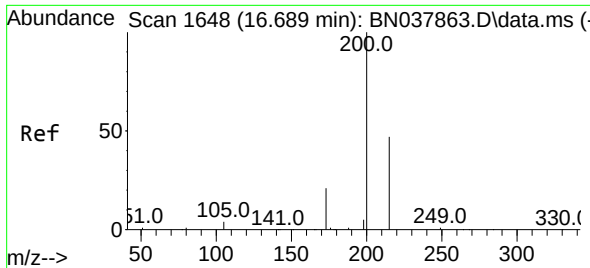
Tgt Ion:248 Resp: 4110
Ion Ratio Lower Upper
248 100
250 97.1 77.6 116.4
141 60.4 48.8 73.2



#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:284 Resp: 5400
Ion Ratio Lower Upper
284 100
142 38.6 30.9 46.3
249 29.2 23.9 35.9

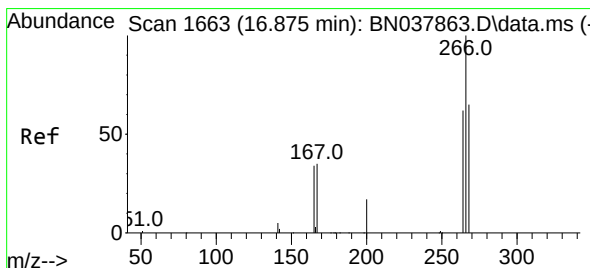
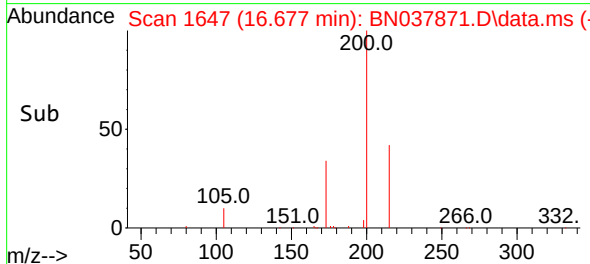
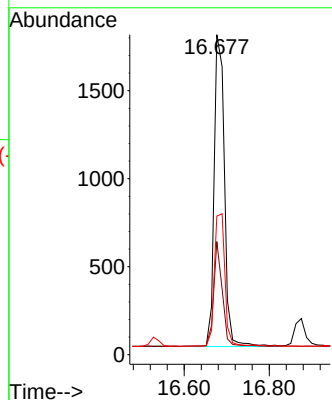
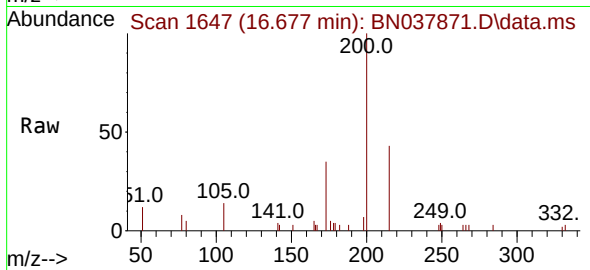




#23
Atrazine
Concen: 0.339 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

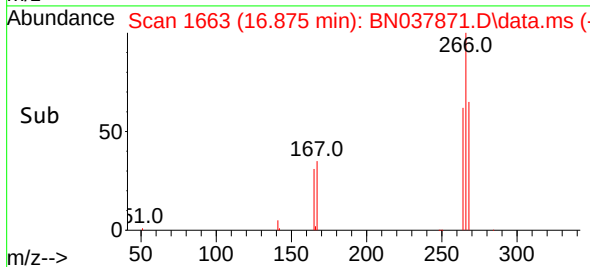
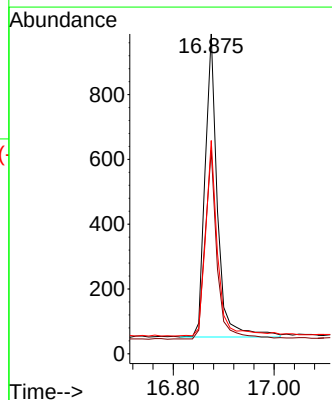
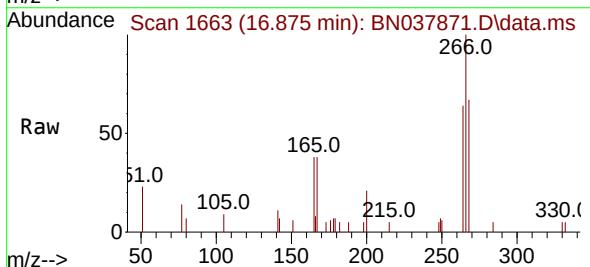
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

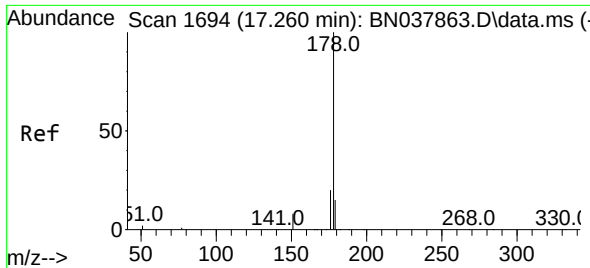
Tgt Ion:200 Resp: 2979
Ion Ratio Lower Upper
200 100
173 35.3 18.3 27.5#
215 43.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.333 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:266 Resp: 1599
Ion Ratio Lower Upper
266 100
264 60.1 50.9 76.3
268 62.9 54.3 81.5

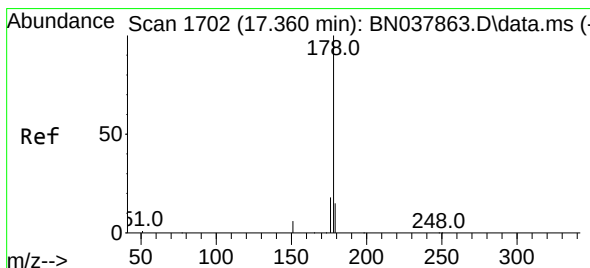
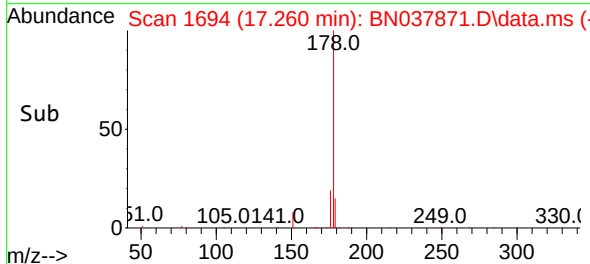
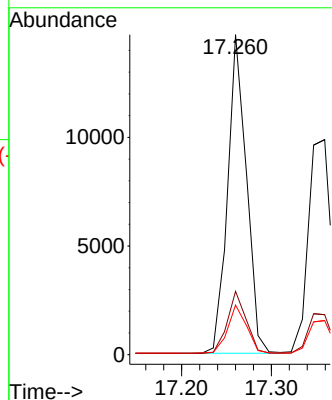
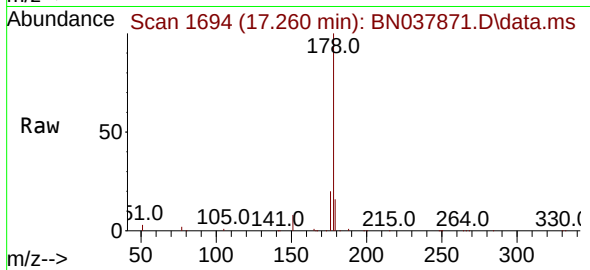




#25
Phenanthrene
Concen: 0.367 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

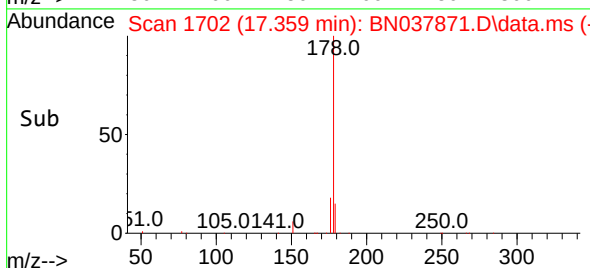
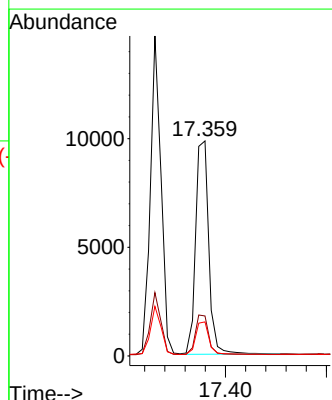
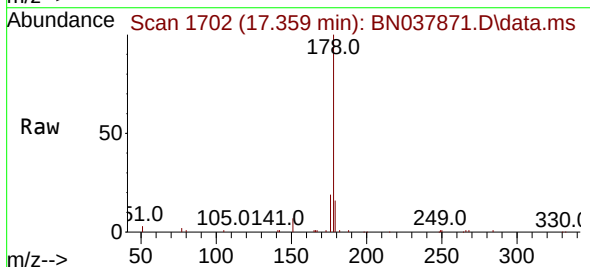
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

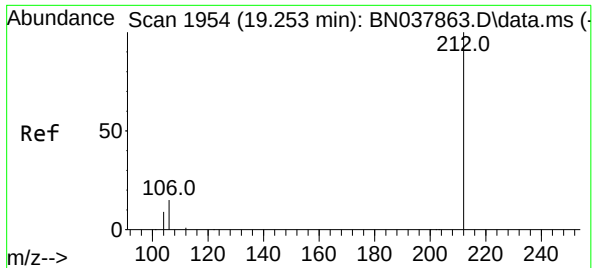
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.1	12.3	18.5



#26
Anthracene
Concen: 0.352 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.3	18.5

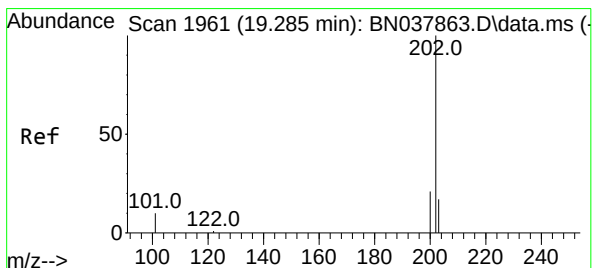
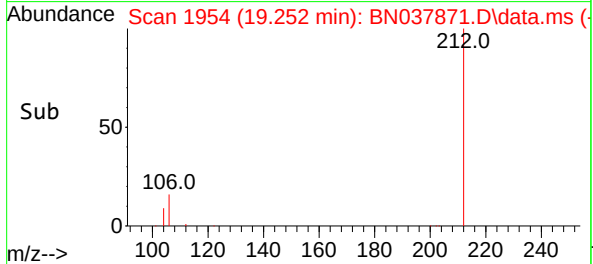
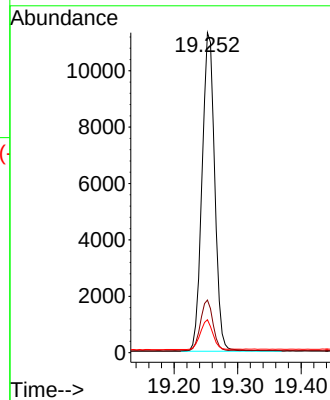
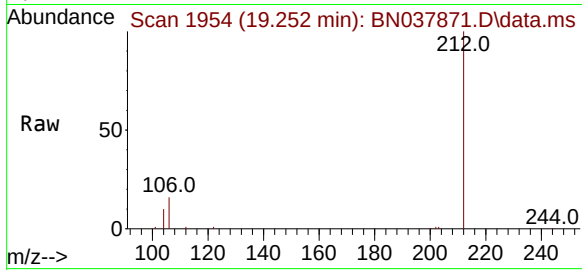




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 19.252 min Scan# 1954
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

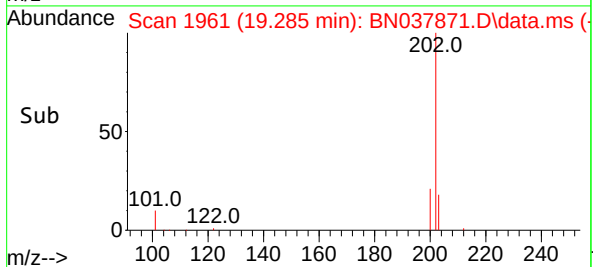
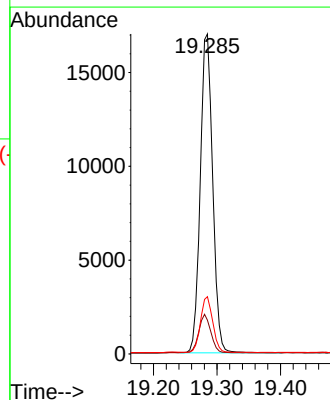
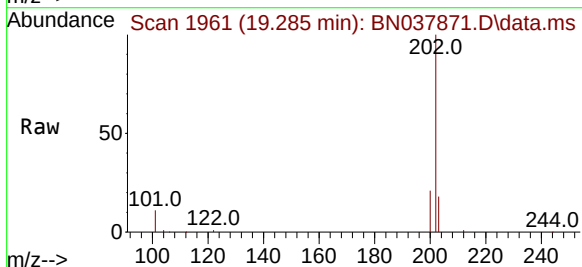
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

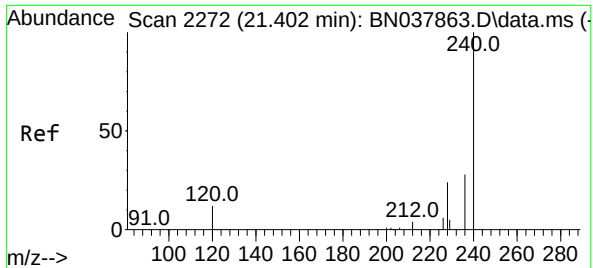
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.6	19.0
104	9.1	7.4	11.0



#28
Fluoranthene
Concen: 0.359 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.3	13.9
203	17.3	13.6	20.4

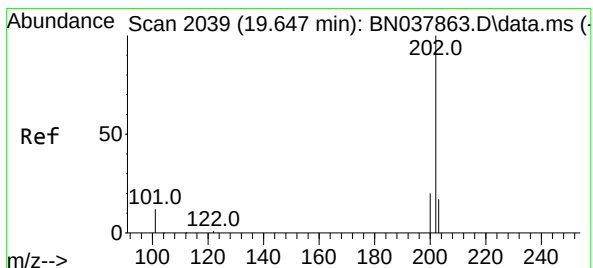
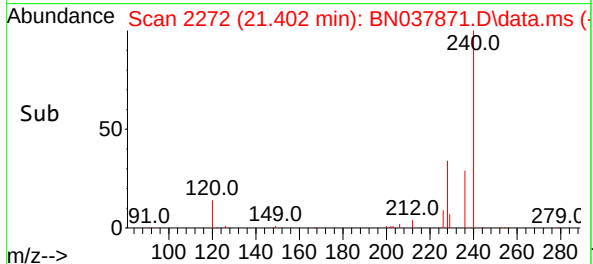
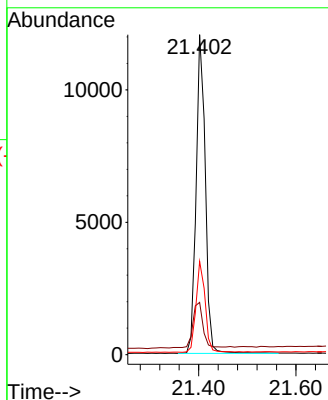
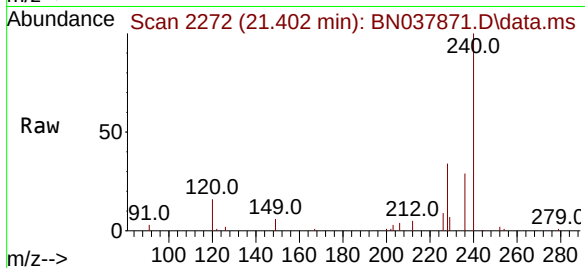




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

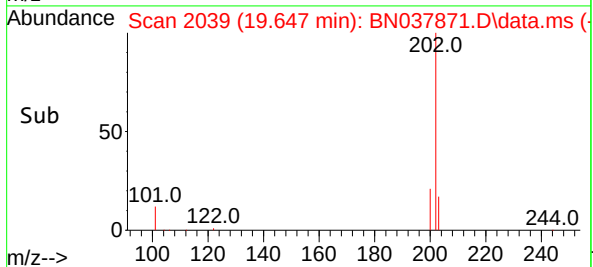
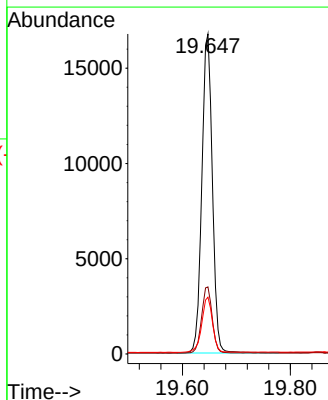
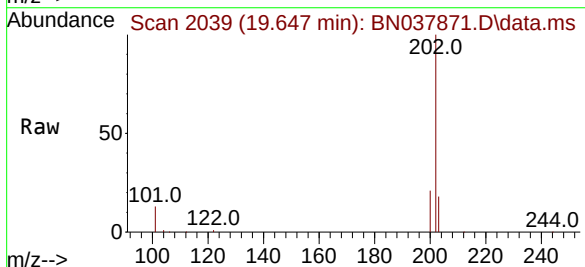
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

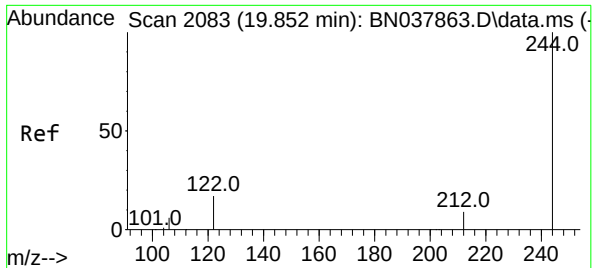
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.3	11.4	17.2
236	29.1	23.0	34.6



#30
Pyrene
Concen: 0.367 ng
RT: 19.647 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.7	25.1
203	17.8	14.2	21.4

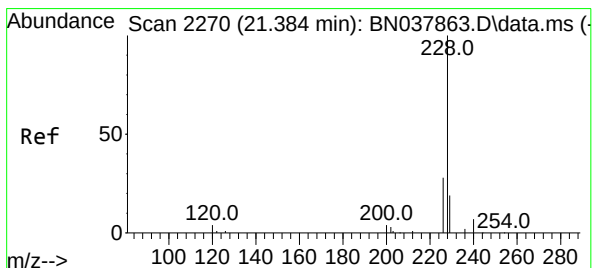
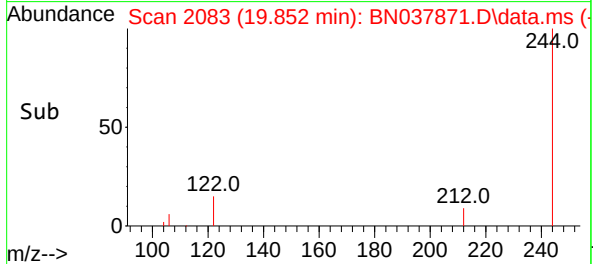
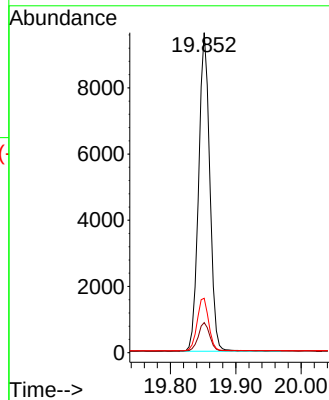
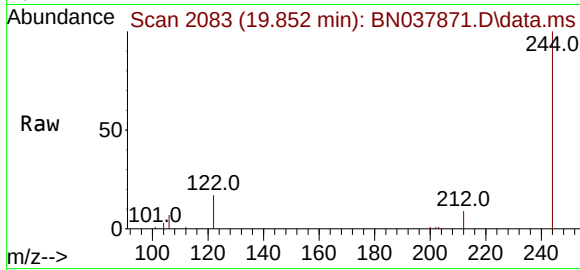




#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

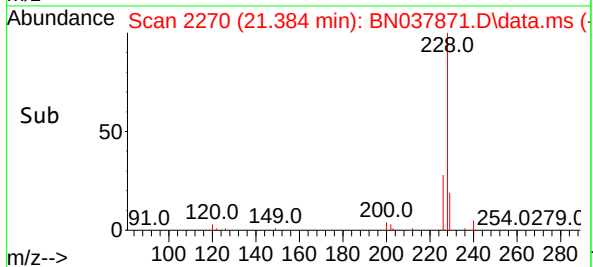
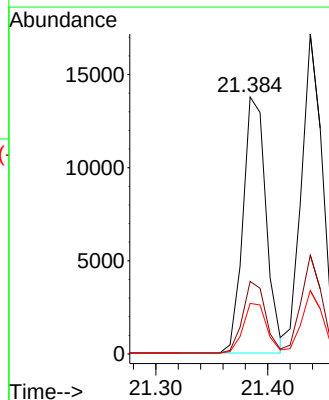
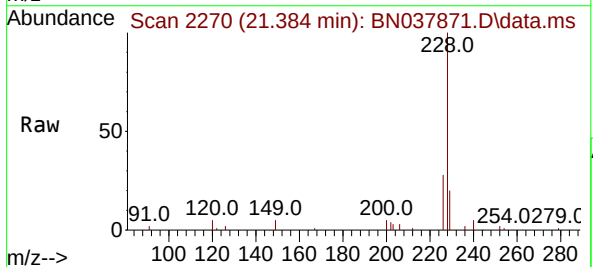
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

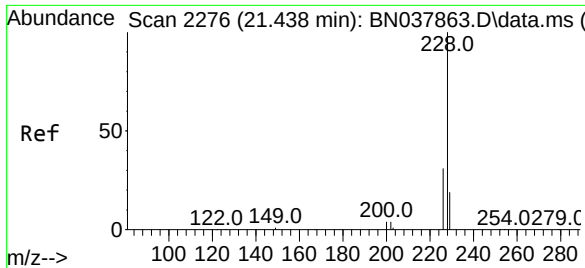
Tgt Ion:244 Resp: 11356
Ion Ratio Lower Upper
244 100
212 9.4 7.6 11.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.360 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:228 Resp: 19693
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.7 15.6 23.4





#33

Chrysene

Concen: 0.384 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

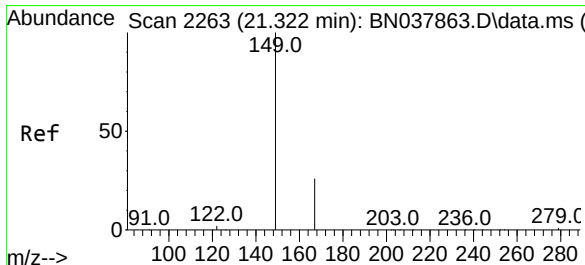
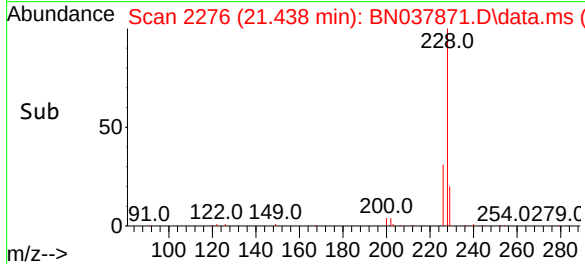
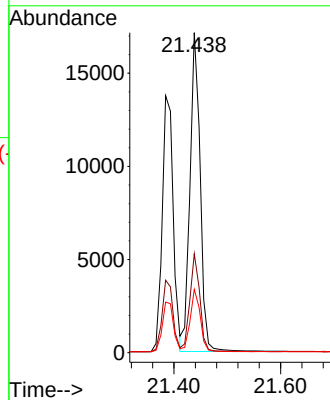
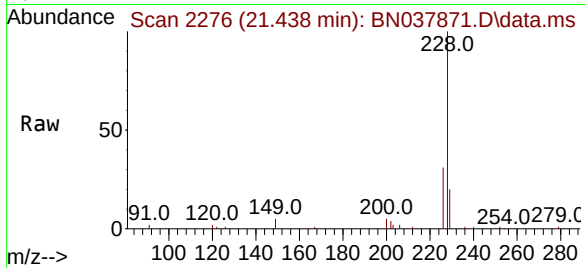
Tgt Ion:228 Resp: 22733

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.8 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.343 ng

RT: 21.330 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

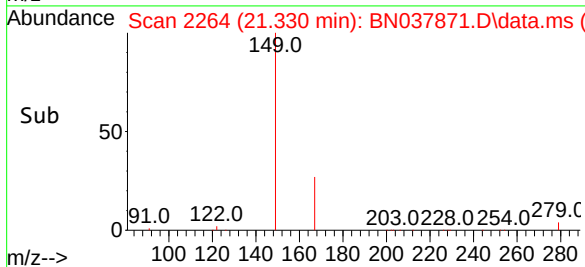
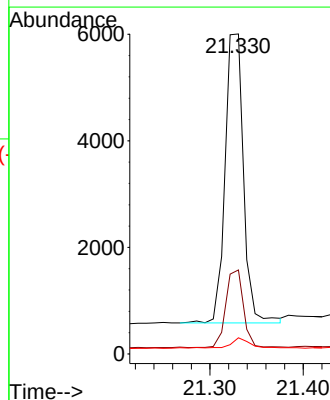
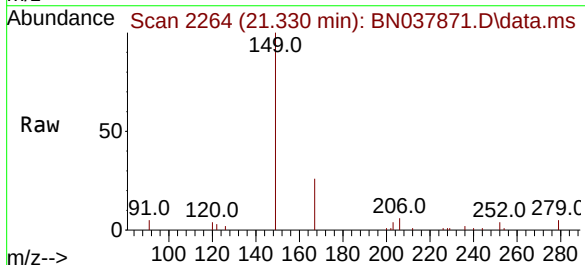
Tgt Ion:149 Resp: 7423

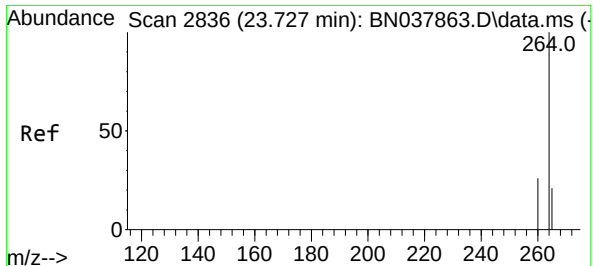
Ion Ratio Lower Upper

149 100

167 25.8 20.4 30.6

279 3.5 2.4 3.6

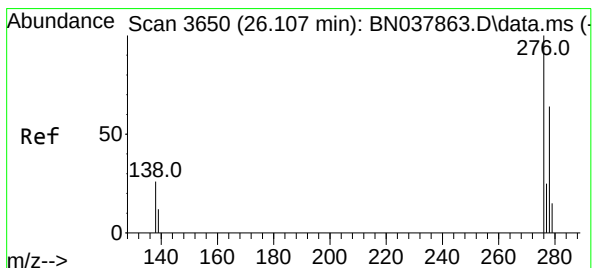
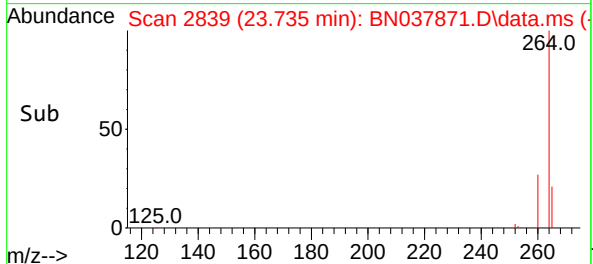
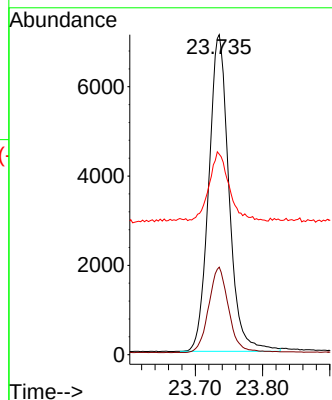
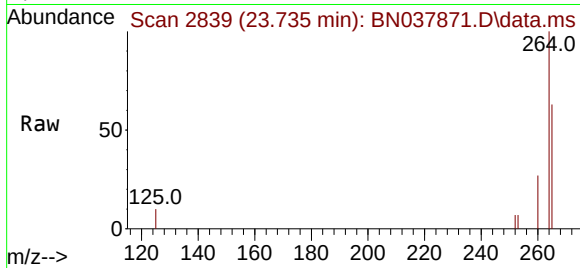




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.735 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

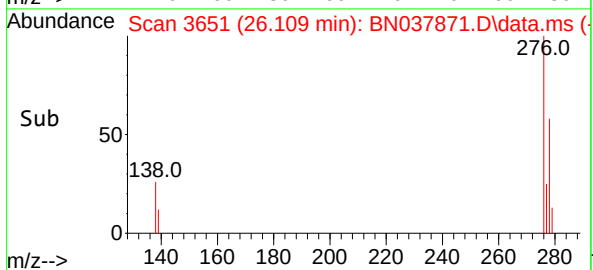
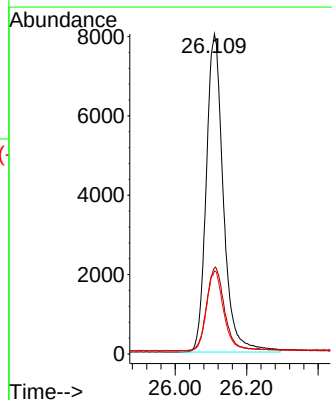
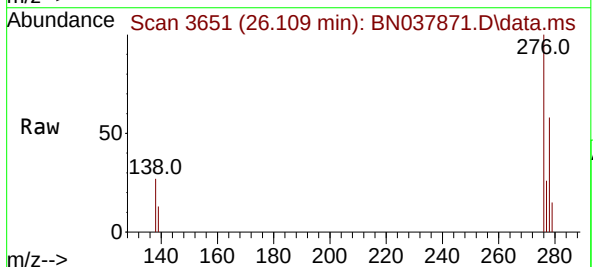
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

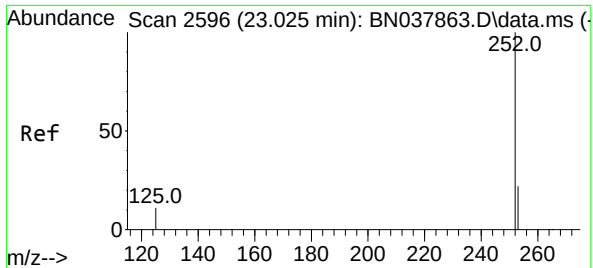
Tgt Ion:	264	Resp:	14846
Ion Ratio	Lower	Upper	
264	100		
260	27.3	21.5	32.3
265	62.7	53.8	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.393 ng
RT: 26.109 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037871.D
Acq: 24 Sep 2025 09:54

Tgt Ion:	276	Resp:	26646
Ion Ratio	Lower	Upper	
276	100		
138	27.2	21.4	32.0
277	25.1	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 0.368 ng

RT: 23.028 min Scan# 2597

Delta R.T. 0.003 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

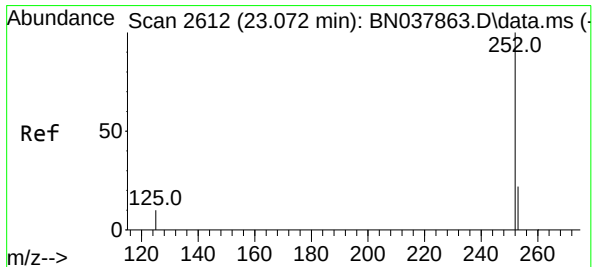
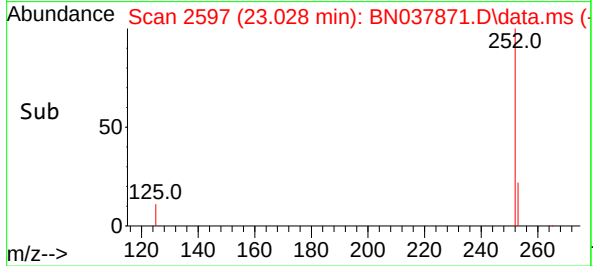
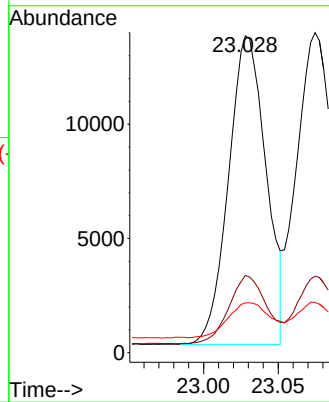
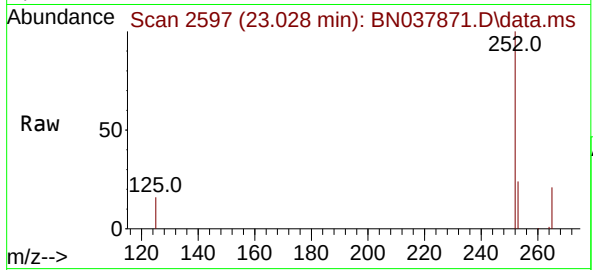
Tgt Ion:252 Resp: 23575

Ion Ratio Lower Upper

252 100

253 24.4 19.4 29.0

125 15.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

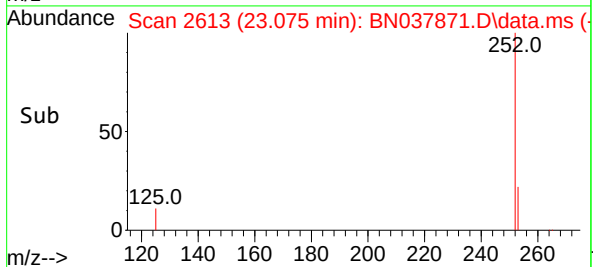
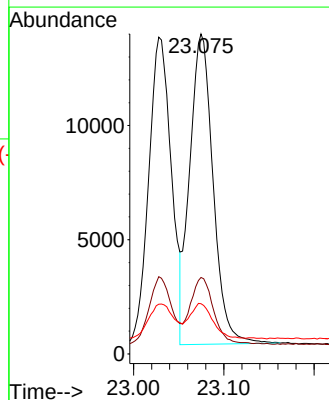
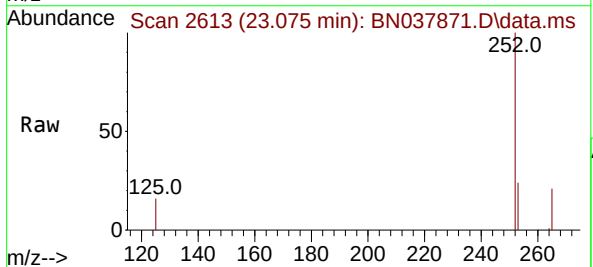
Tgt Ion:252 Resp: 24415

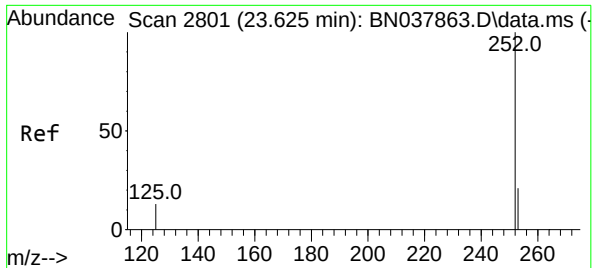
Ion Ratio Lower Upper

252 100

253 23.9 19.5 29.3

125 15.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.630 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

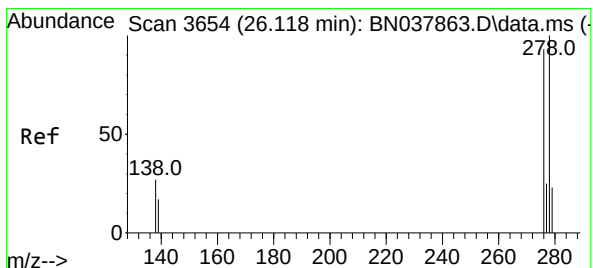
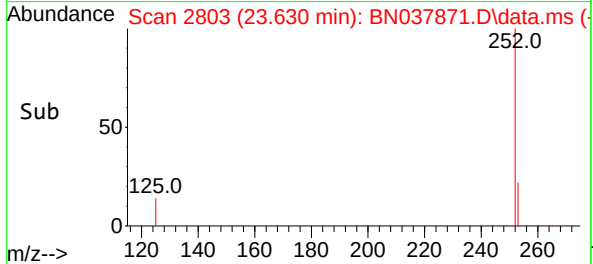
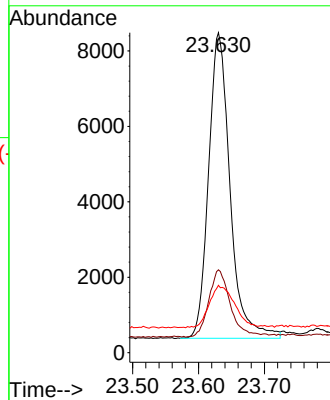
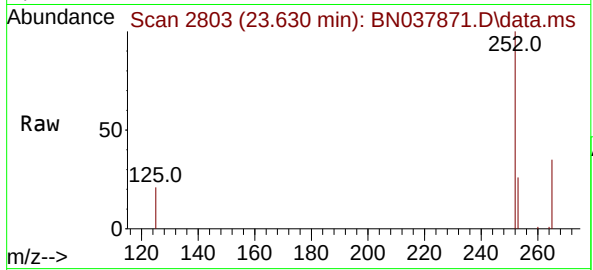
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	18325
Ion Ratio	Lower	Upper
252	100	
253	25.9	20.6 30.8
125	21.1	16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

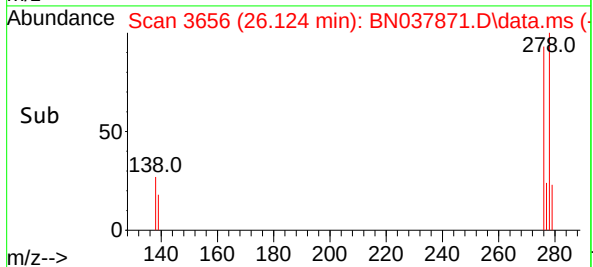
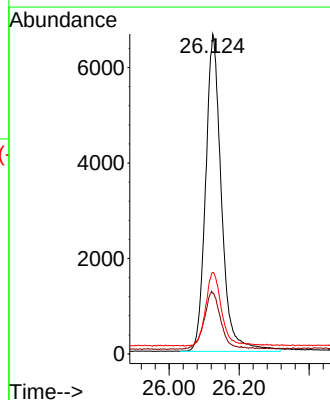
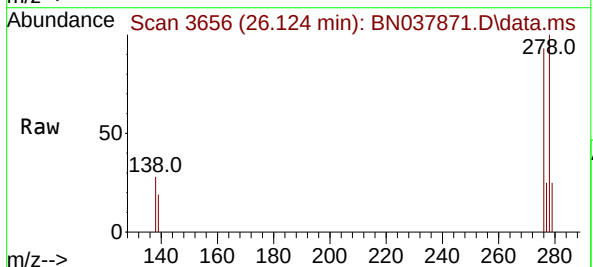
RT: 26.124 min Scan# 3656

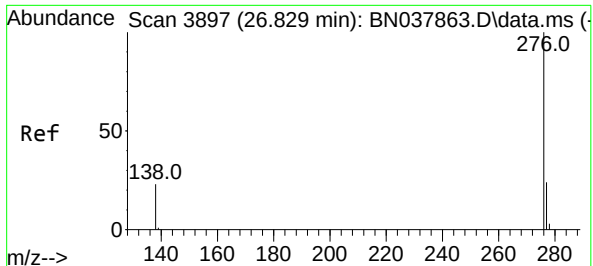
Delta R.T. 0.006 min

Lab File: BN037871.D

Acq: 24 Sep 2025 09:54

Tgt Ion:278	Resp:	20887
Ion Ratio	Lower	Upper
278	100	
139	19.0	15.4 23.2
279	25.5	20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.835 min Scan# 3899

Delta R.T. 0.006 min

Lab File: BN037871.D

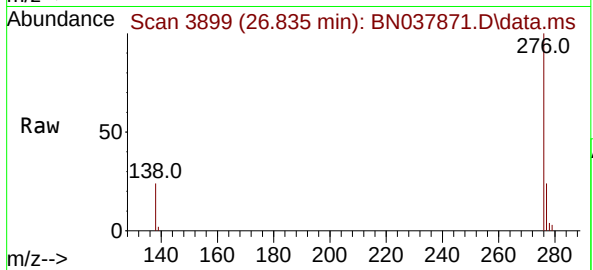
Acq: 24 Sep 2025 09:54

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



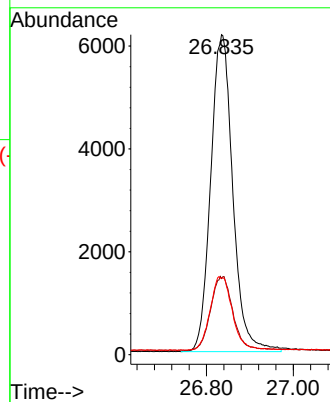
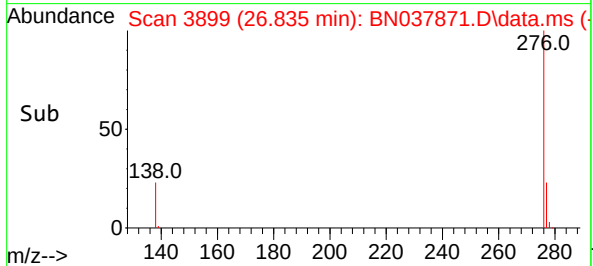
Tgt Ion:276 Resp: 21736

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2	1,4-Dioxane	0.406	0.419	-3.2	110	0.00
3	n-Nitrosodimethylamine	0.540	0.531	1.7	111	0.00
4 S	2-Fluorophenol	0.913	0.826	9.5	104	0.00
5 S	Phenol-d6	1.199	1.076	10.3	104	0.00
6	bis(2-Chloroethyl)ether	1.113	1.065	4.3	106	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.305	0.287	5.9	106	0.00
9	Naphthalene	1.102	1.058	4.0	108	0.00
10	Hexachlorobutadiene	0.188	0.185	1.6	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.502	9.7	108	0.00
12	2-Methylnaphthalene	0.720	0.669	7.1	107	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.152	0.122	19.7	96	0.00
15 S	2-Fluorobiphenyl	1.638	1.579	3.6	108	0.00
16	Acenaphthylene	1.816	1.680	7.5	108	0.00
17	Acenaphthene	1.294	1.213	6.3	108	0.00
18	Fluorene	1.565	1.505	3.8	110	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.039	31.6#	100	0.00
21	4-Bromophenyl-phenylether	0.261	0.232	11.1	105	0.00
22	Hexachlorobenzene	0.316	0.305	3.5	111	0.00
23	Atrazine	0.199	0.168	15.6	109	-0.01
24	Pentachlorophenol	0.108	0.090	16.7	109	0.00
25	Phenanthrene	1.316	1.208	8.2	109	0.00
26	Anthracene	1.142	1.005	12.0	109	0.00
27 SURR	Fluoranthene-d10	1.006	0.885	12.0	111	0.00
28	Fluoranthene	1.450	1.301	10.3	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	115	0.00
30	Pyrene	1.579	1.447	8.4	110	0.00
31 S	Terphenyl-d14	0.797	0.725	9.0	111	0.00
32	Benzo(a)anthracene	1.398	1.258	10.0	112	0.00
33	Chrysene	1.512	1.452	4.0	115	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.474	14.3	112	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.795	1.8	128	0.00
37	Benzo(b)fluoranthene	1.725	1.588	7.9	114	0.00
38	Benzo(k)fluoranthene	1.736	1.645	5.2	122	0.00
39 C	Benzo(a)pyrene	1.364	1.234	9.5	118	0.00
40	Dibenzo(a,h)anthracene	1.427	1.407	1.4	127	0.00
41	Benzo(g,h,i)perylene	1.499	1.464	2.3	123	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037871.D
Acq On : 24 Sep 2025 09:54
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 24 11:11:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	108	0.00
2	1,4-Dioxane	0.400	0.413	-3.2	110	0.00
3	n-Nitrosodimethylamine	0.400	0.393	1.8	111	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	104	0.00
5 S	Phenol-d6	0.400	0.359	10.3	104	0.00
6	bis(2-Chloroethyl)ether	0.400	0.383	4.3	106	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.377	5.8	106	0.00
9	Naphthalene	0.400	0.384	4.0	108	0.00
10	Hexachlorobutadiene	0.400	0.393	1.8	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	108	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	107	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	107	0.00
14 S	2,4,6-Tribromophenol	0.400	0.321	19.8	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	108	0.00
16	Acenaphthylene	0.400	0.370	7.5	108	0.00
17	Acenaphthene	0.400	0.375	6.3	108	0.00
18	Fluorene	0.400	0.385	3.8	110	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.373	6.8	100	0.00
21	4-Bromophenyl-phenylether	0.400	0.356	11.0	105	0.00
22	Hexachlorobenzene	0.400	0.386	3.5	111	0.00
23	Atrazine	0.400	0.339	15.3	109	-0.01
24	Pentachlorophenol	0.400	0.333	16.8	109	0.00
25	Phenanthrene	0.400	0.367	8.3	109	0.00
26	Anthracene	0.400	0.352	12.0	109	0.00
27 SURR	Fluoranthene-d10	0.400	0.352	12.0	111	0.00
28	Fluoranthene	0.400	0.359	10.3	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	115	0.00
30	Pyrene	0.400	0.367	8.3	110	0.00
31 S	Terphenyl-d14	0.400	0.364	9.0	111	0.00
32	Benzo(a)anthracene	0.400	0.360	10.0	112	0.00
33	Chrysene	0.400	0.384	4.0	115	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.343	14.2	112	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.393	1.8	128	0.00
37	Benzo(b)fluoranthene	0.400	0.368	8.0	114	0.00
38	Benzo(k)fluoranthene	0.400	0.379	5.3	122	0.00
39 C	Benzo(a)pyrene	0.400	0.362	9.5	118	0.00
40	Dibenzo(a,h)anthracene	0.400	0.394	1.5	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.391	2.3	123	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3015
 Instrument ID: BNA_N Calibration Date/Time: 09/25/2025 11:31
 Lab File ID: BN037883.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.515		-7.4	20.0
Fluoranthene-d10	1.006	0.915		-9.0	20.0
2-Fluorophenol	0.913	0.967		5.9	20.0
Phenol-d6	1.199	1.243		3.7	20.0
Nitrobenzene-d5	0.305	0.321		5.2	20.0
Naphthalene	1.102	1.100		-0.2	20.0
2-Methylnaphthalene	0.720	0.697		-3.2	20.0
2-Fluorobiphenyl	1.638	1.650		0.7	20.0
Acenaphthylene	1.816	1.726		-5.0	20.0
Acenaphthene	1.294	1.242		-4.0	20.0
Fluorene	1.565	1.525		-2.6	20.0
2,4,6-Tribromophenol	0.152	0.143		-5.9	20.0
Phenanthrene	1.316	1.236		-6.1	20.0
Anthracene	1.142	1.026		-10.2	20.0
Fluoranthene	1.450	1.327		-8.5	20.0
Pyrene	1.579	1.498		-5.1	20.0
Terphenyl-d14	0.797	0.754		-5.4	20.0
Benzo(a)anthracene	1.398	1.302		-6.9	20.0
Chrysene	1.512	1.469		-2.9	20.0
Benzo(b)fluoranthene	1.725	1.601		-7.2	20.0
Benzo(k)fluoranthene	1.736	1.649		-5.0	20.0
Benzo(a)pyrene	1.364	1.266		-7.2	20.0
Indeno(1,2,3-cd)pyrene	1.828	1.724		-5.7	20.0
Dibenzo(a,h)anthracene	1.427	1.338		-6.2	20.0
Benzo(g,h,i)perylene	1.499	1.371		-8.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
 Data File : BN037883.D
 Acq On : 25 Sep 2025 11:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

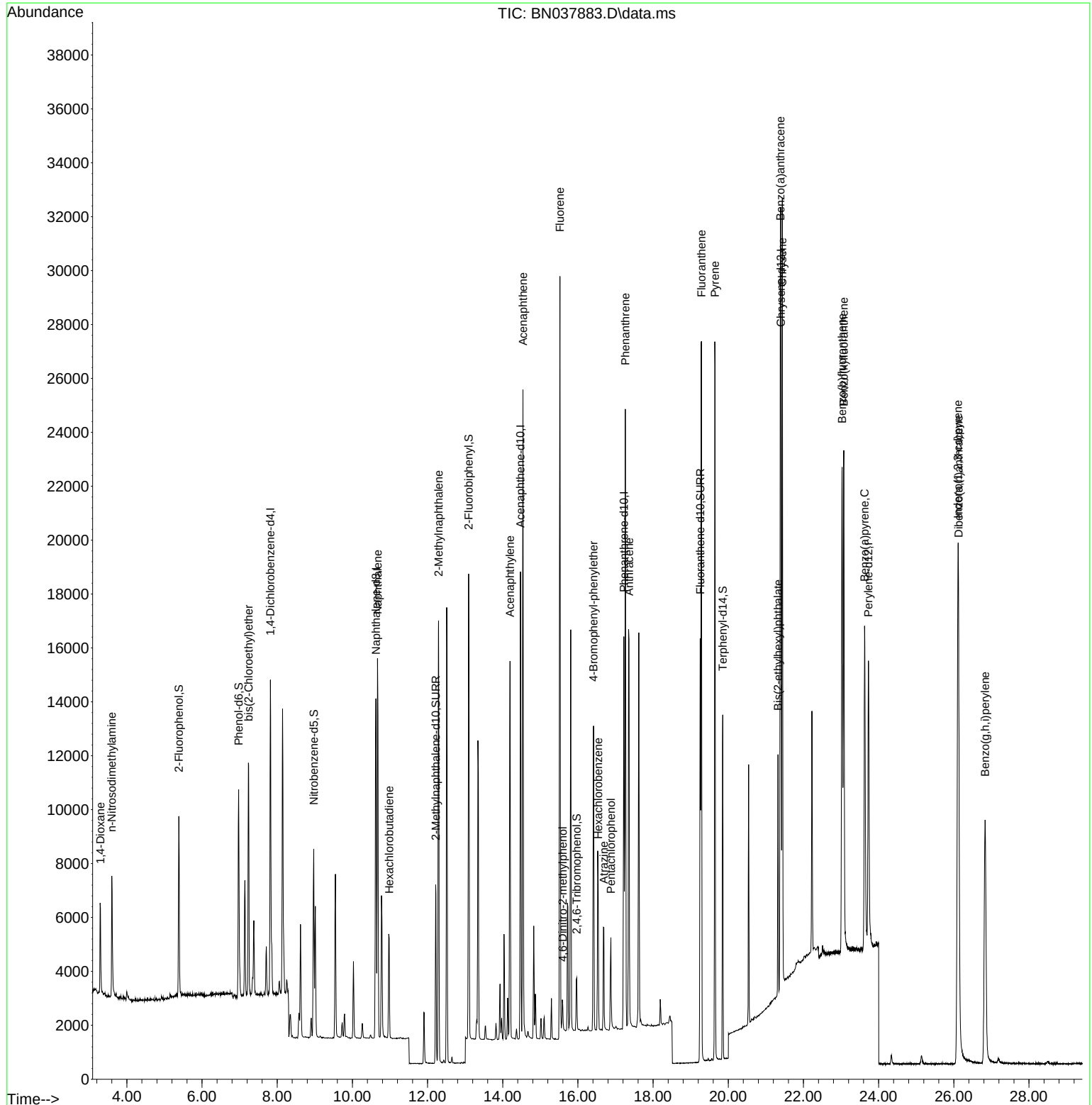
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5686	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16943	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8938	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	18224	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15951	0.400	ng	0.00
35) Perylene-d12	23.730	264	15181	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.385	112	5496	0.424	ng	0.00
5) Phenol-d6	6.973	99	7070	0.415	ng	0.00
8) Nitrobenzene-d5	8.971	82	5435	0.421	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8729	0.371	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1282	0.378	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14748	0.403	ng	0.00
27) Fluoranthene-d10	19.253	212	16679	0.364	ng	0.00
31) Terphenyl-d14	19.852	244	12027	0.379	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2396	0.415	ng	98
3) n-Nitrosodimethylamine	3.601	42	2953	0.385	ng	# 91
6) bis(2-Chloroethyl)ether	7.241	93	6313	0.399	ng	98
9) Naphthalene	10.669	128	18632	0.399	ng	100
10) Hexachlorobutadiene	10.979	225	3268	0.410	ng	# 99
12) 2-Methylnaphthalene	12.294	142	11807	0.387	ng	99
16) Acenaphthylene	14.195	152	15429	0.380	ng	100
17) Acenaphthene	14.537	154	11105	0.384	ng	100
18) Fluorene	15.523	166	13630	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	819	0.416	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4303	0.362	ng	99
22) Hexachlorobenzene	16.540	284	5574	0.387	ng	100
23) Atrazine	16.689	200	3567	0.394	ng	99
24) Pentachlorophenol	16.876	266	1732	0.351	ng	96
25) Phenanthrene	17.260	178	22519	0.375	ng	99
26) Anthracene	17.360	178	18701	0.359	ng	100
28) Fluoranthene	19.285	202	24178	0.366	ng	99
30) Pyrene	19.643	202	23902	0.380	ng	100
32) Benzo(a)anthracene	21.384	228	20770	0.373	ng	99
33) Chrysene	21.438	228	23424	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	7768	0.352	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.110	276	26167	0.377	ng	99
37) Benzo(b)fluoranthene	23.028	252	24299	0.371	ng	99
38) Benzo(k)fluoranthene	23.072	252	25034	0.380	ng	100
39) Benzo(a)pyrene	23.628	252	19225	0.371	ng	100
40) Dibenzo(a,h)anthracene	26.124	278	20318	0.375	ng	100
41) Benzo(g,h,i)perylene	26.835	276	20812	0.366	ng	99

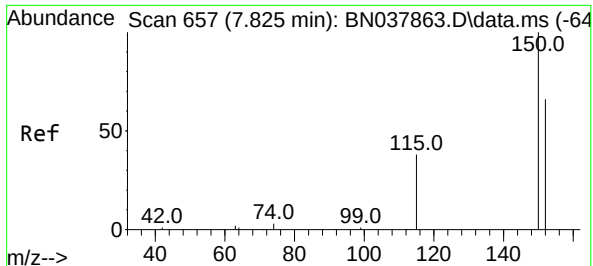
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

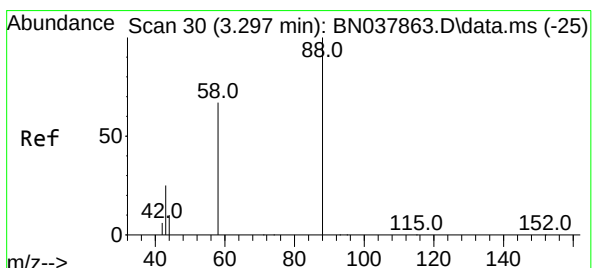
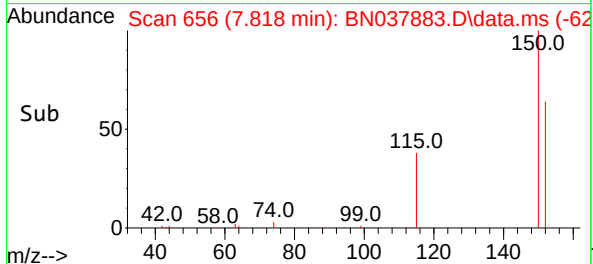
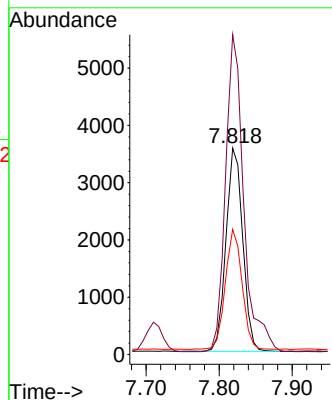
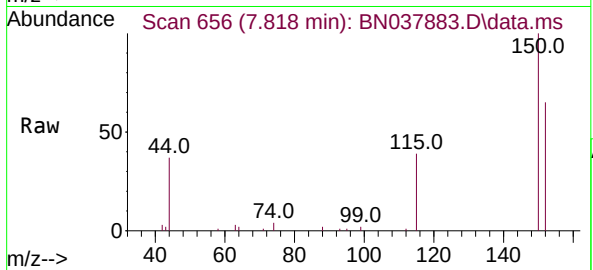




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

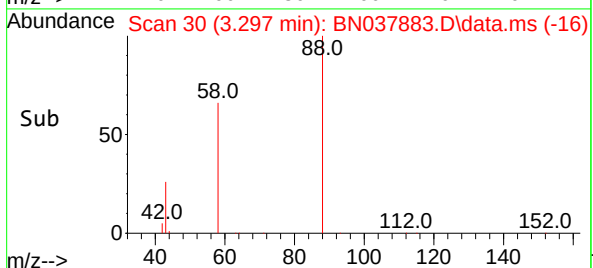
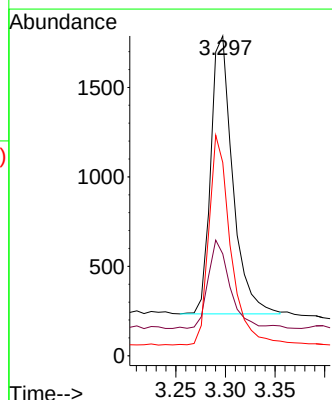
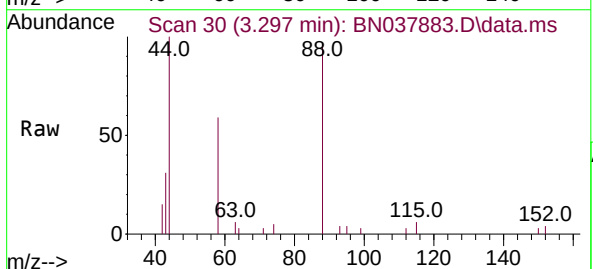
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

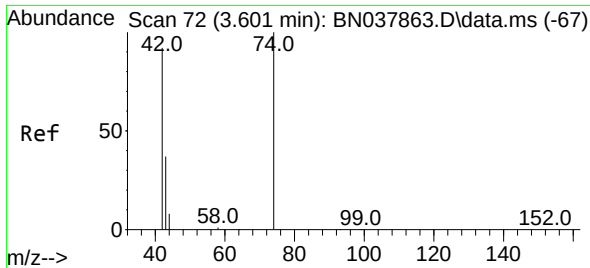
Tgt Ion:152 Resp: 5686
Ion Ratio Lower Upper
152 100
150 154.9 121.0 181.4
115 60.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 88 Resp: 2396
Ion Ratio Lower Upper
88 100
43 32.2 26.6 39.8
58 74.8 58.9 88.3

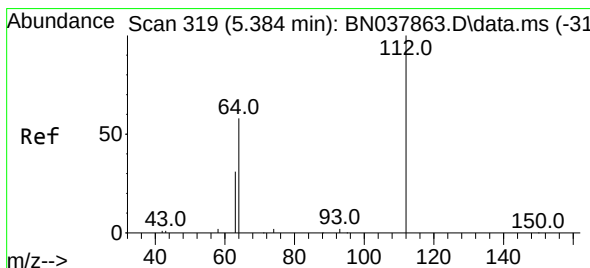
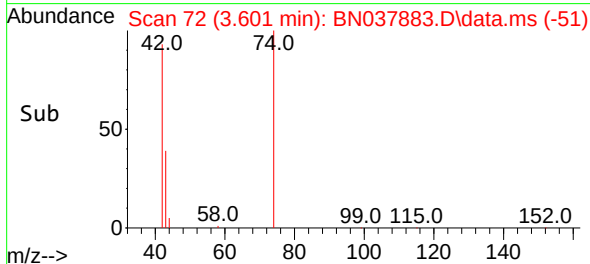
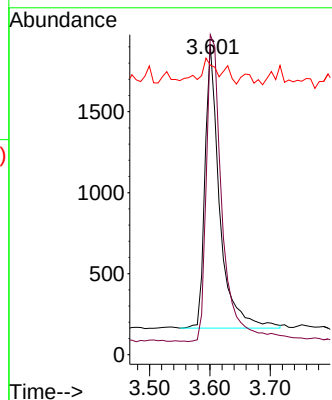
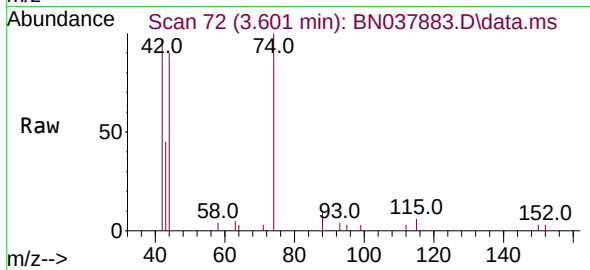




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

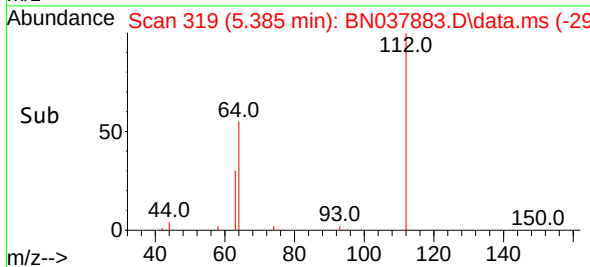
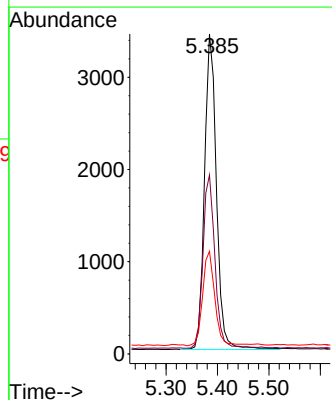
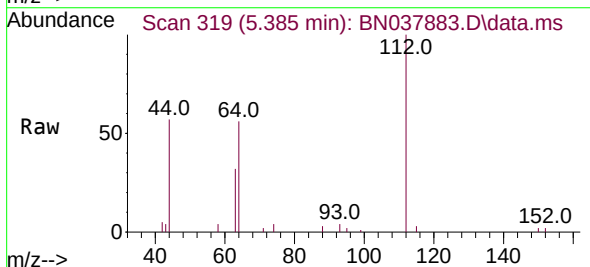
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

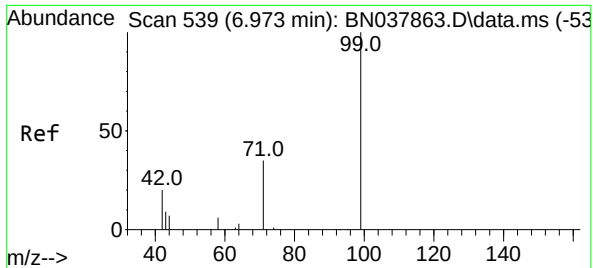
Tgt Ion: 42 Resp: 2953
Ion Ratio Lower Upper
42 100
74 117.9 93.4 140.0
44 7.0 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.385 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion: 112 Resp: 5496
Ion Ratio Lower Upper
112 100
64 55.5 44.6 66.8
63 31.0 24.9 37.3

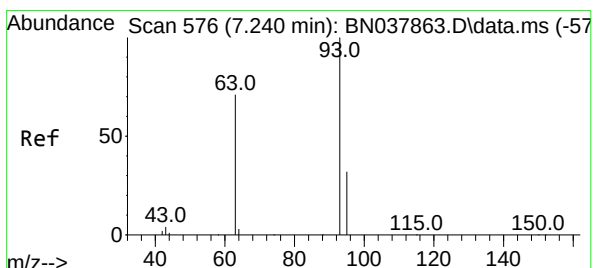
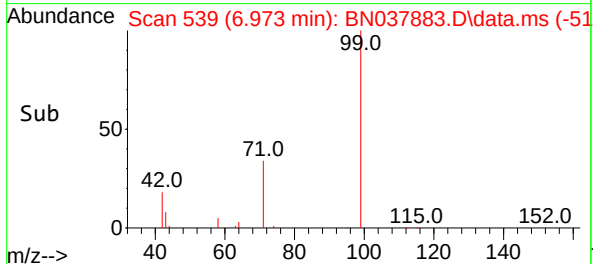
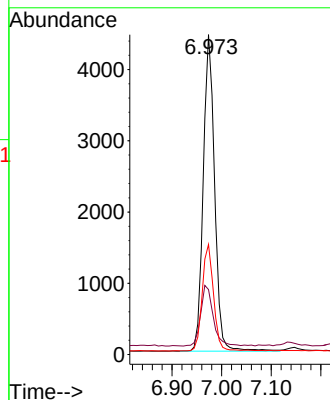
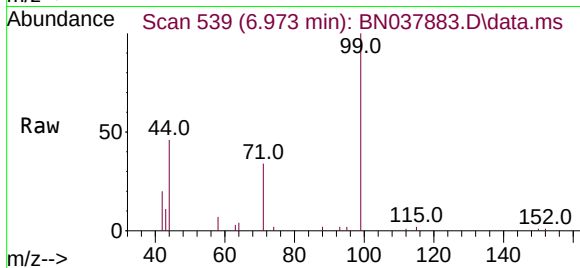




#5
Phenol-d6
Concen: 0.415 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

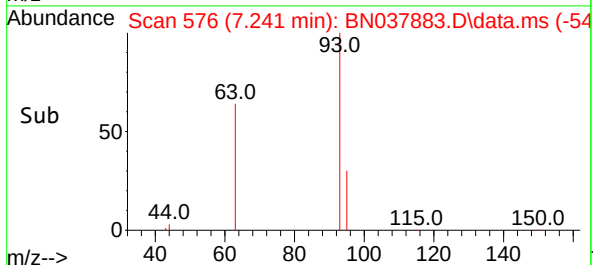
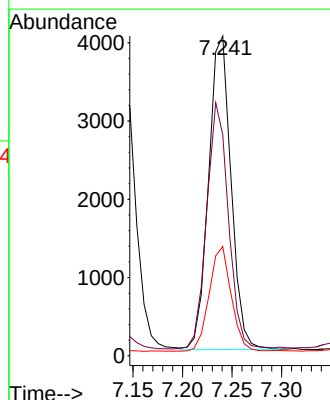
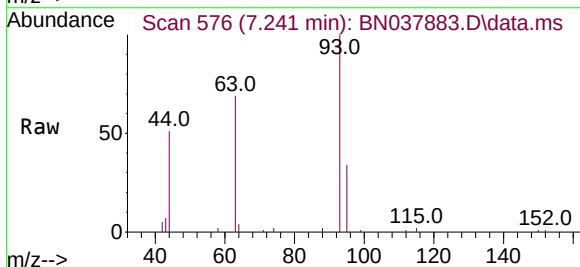
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

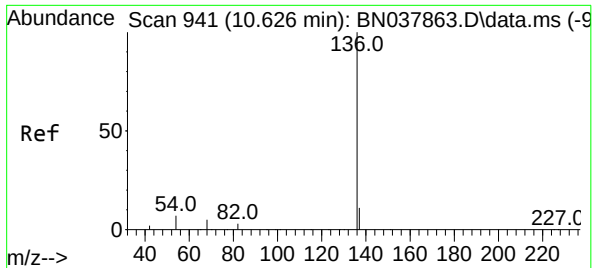
Tgt Ion:	99	Resp:	7070
Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.2	25.8
71	33.4	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	93	Resp:	6313
Ion	Ratio	Lower	Upper
93	100		
63	76.4	60.1	90.1
95	32.8	25.4	38.2

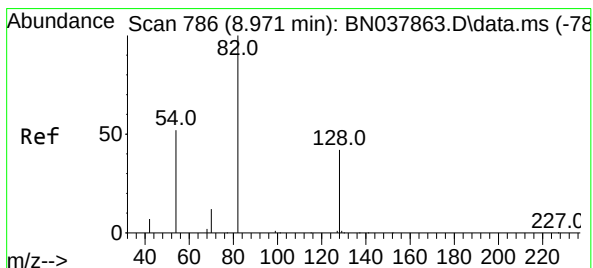
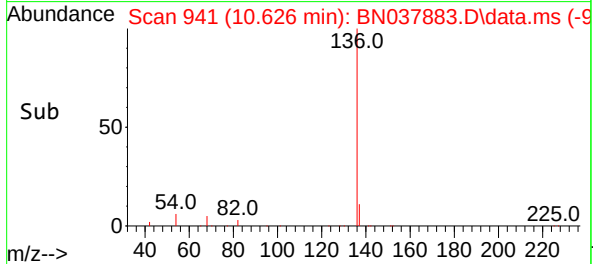
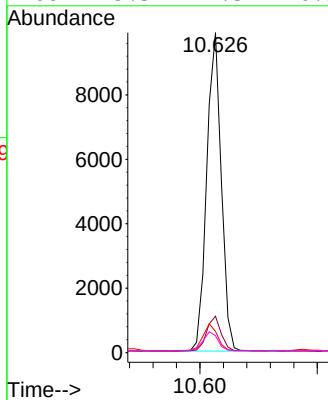
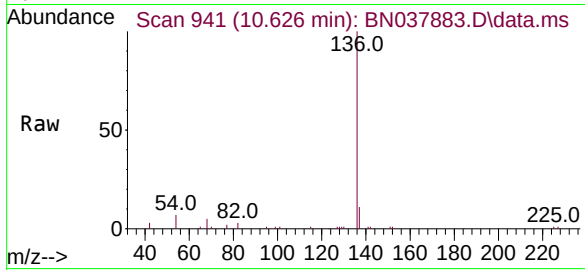




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

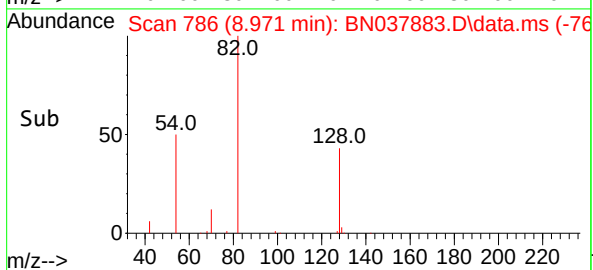
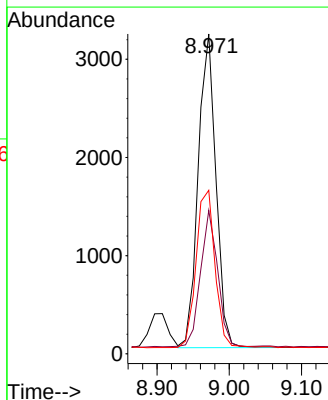
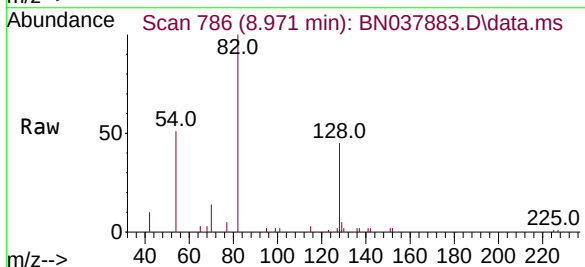
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

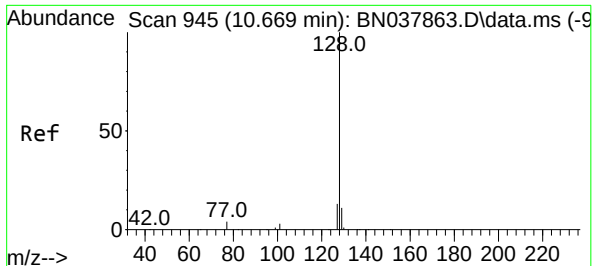
Tgt Ion:	136	Resp:	16943
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	6.6	5.8	8.8
68	5.3	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	82	Resp:	5435
Ion	Ratio	Lower	Upper
82	100		
128	44.8	34.8	52.2
54	51.1	42.2	63.2

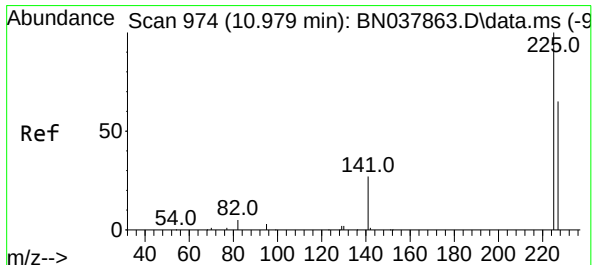
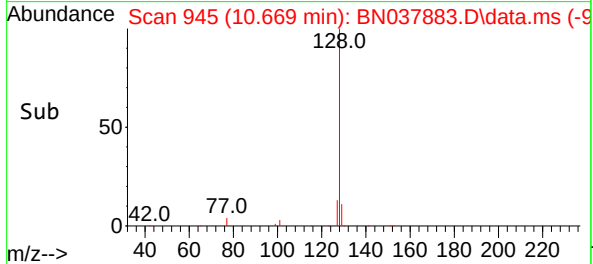
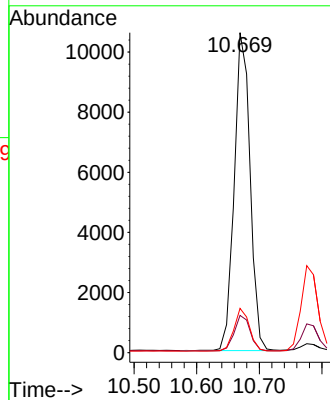
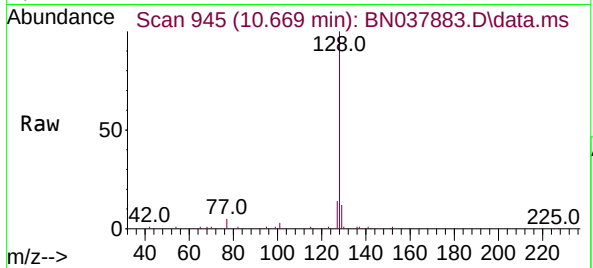




#9
Naphthalene
Concen: 0.399 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

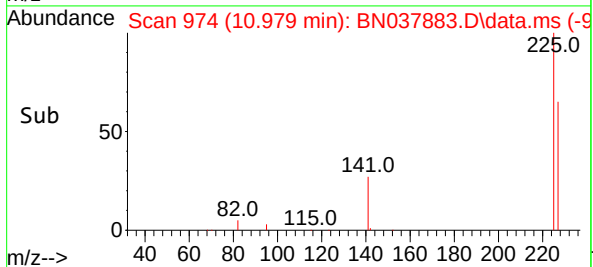
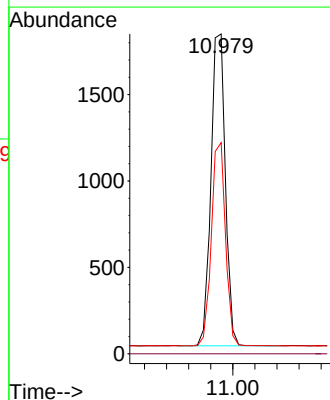
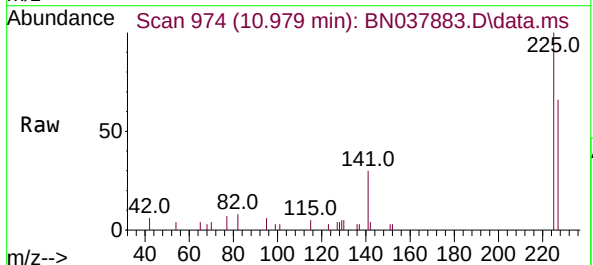
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

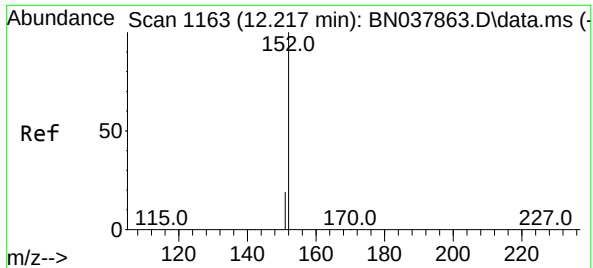
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.8	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2

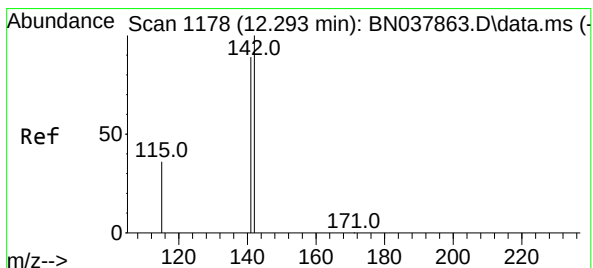
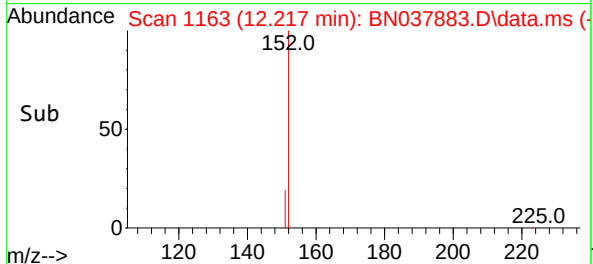
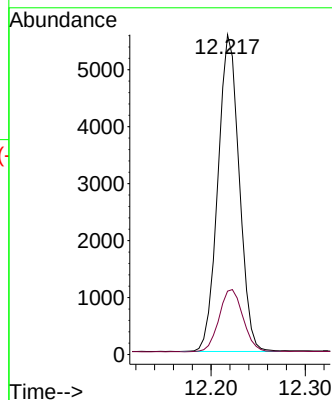
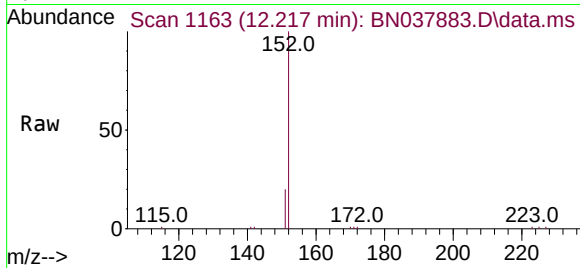




#11
2-Methylnaphthalene-d10
Concen: 0.371 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

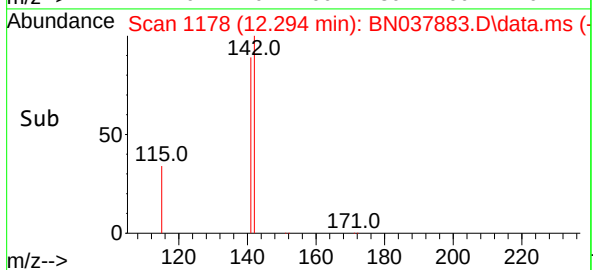
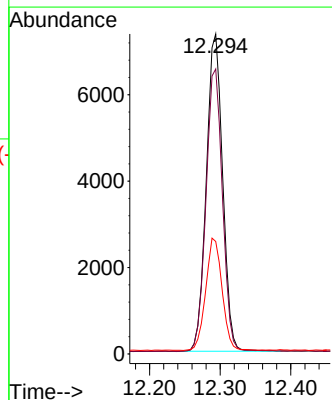
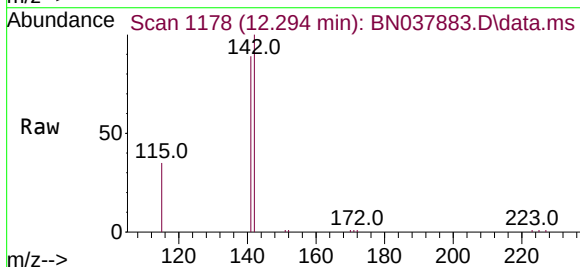
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

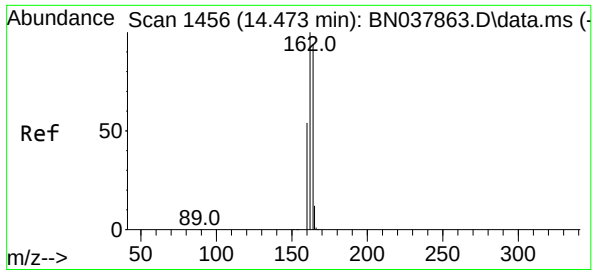
Tgt Ion:152 Resp: 8729
Ion Ratio Lower Upper
152 100
151 22.2 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:142 Resp: 11807
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 35.1 29.7 44.5

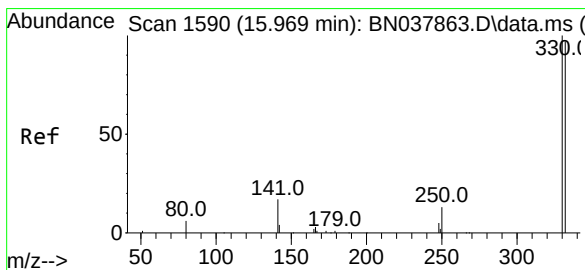
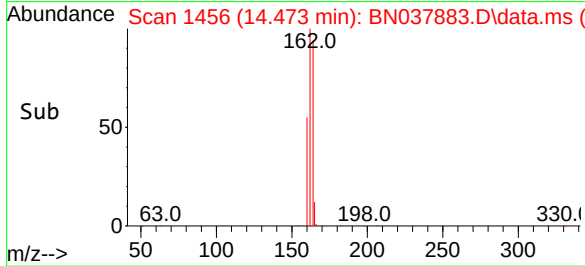
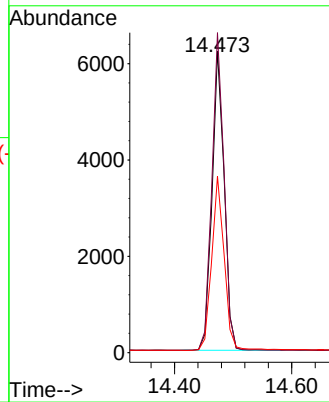
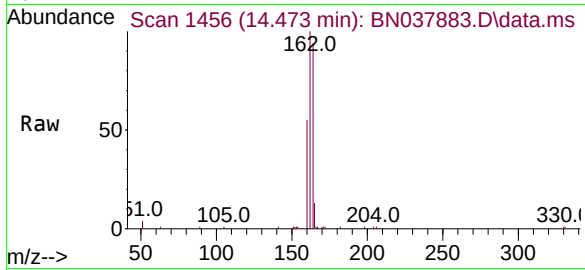




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

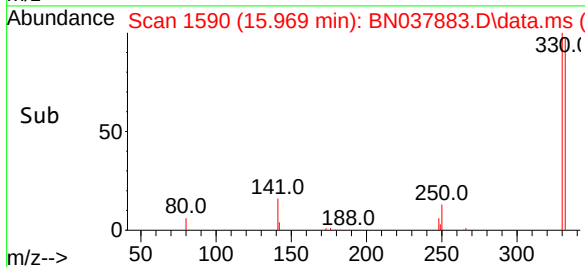
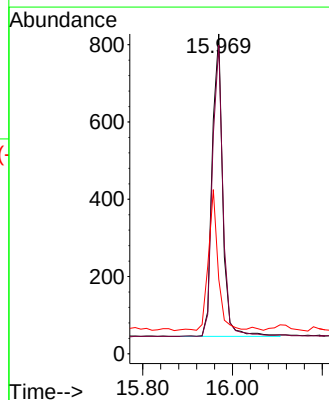
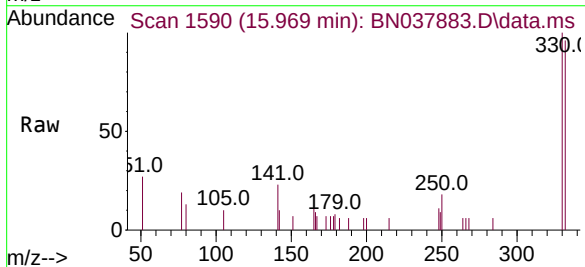
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

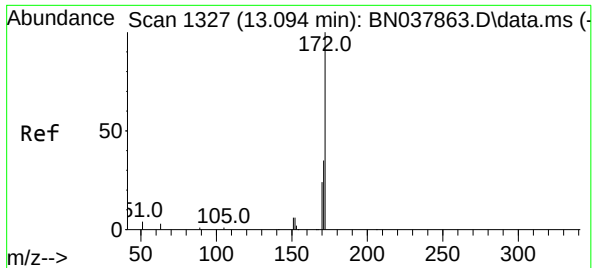
Tgt Ion:	164	Resp:	8938
Ion	Ratio	Lower	Upper
164	100		
162	106.1	84.8	127.2
160	58.5	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	330	Resp:	1282
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.2	115.8
141	43.2	37.2	55.8

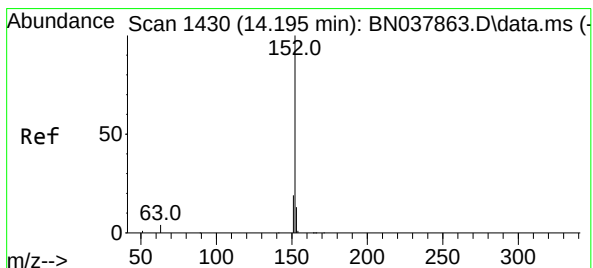
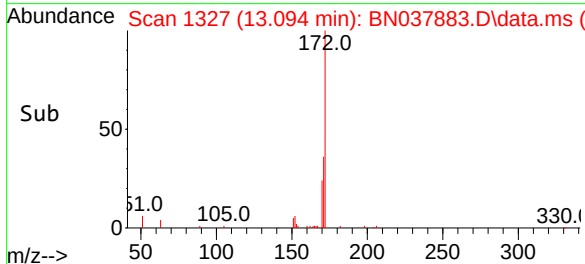
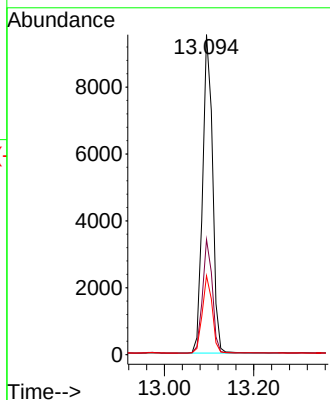
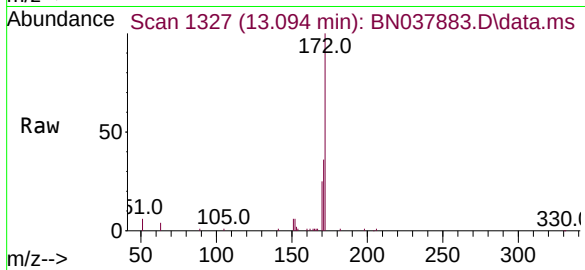




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

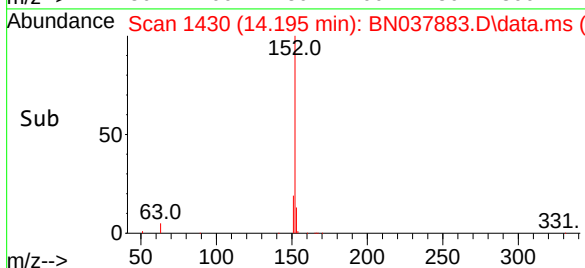
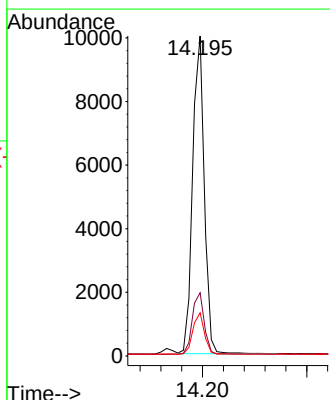
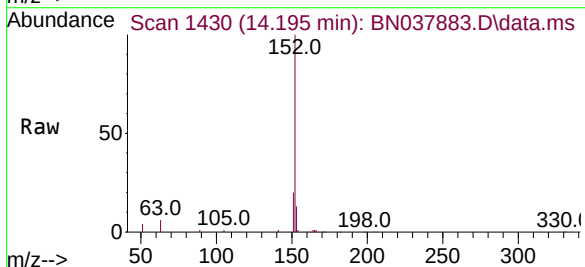
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

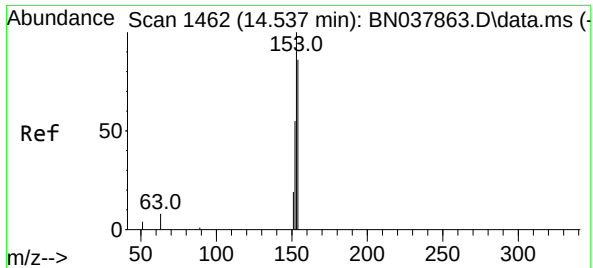
Tgt Ion:	172	Resp:	14748
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:	152	Resp:	15429
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.8	23.8
153	12.8	10.5	15.7

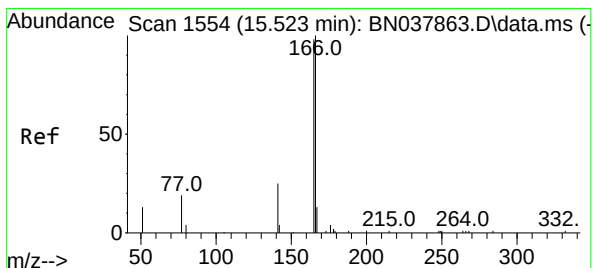
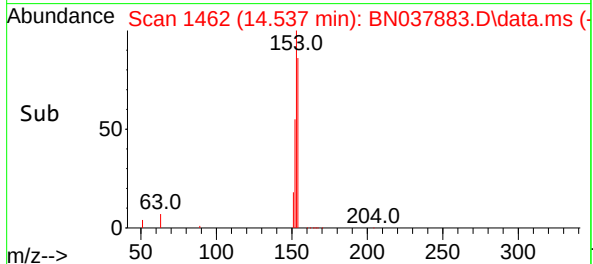
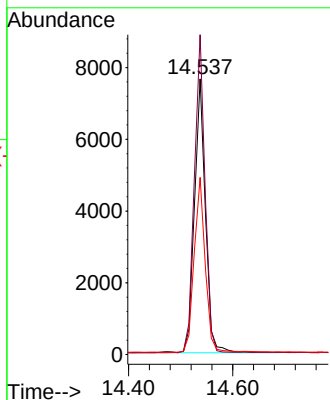
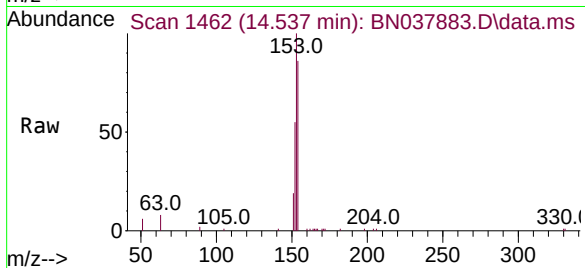




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

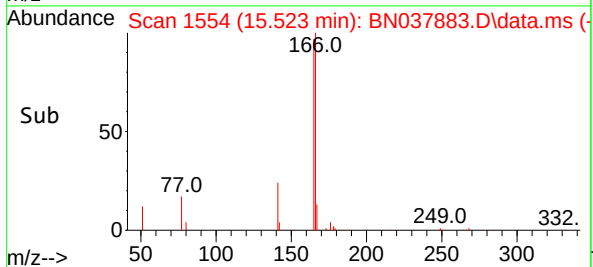
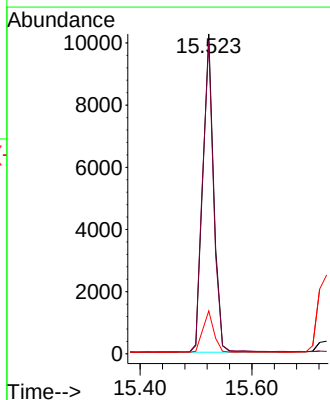
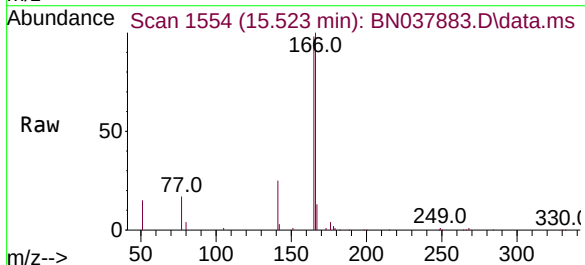
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

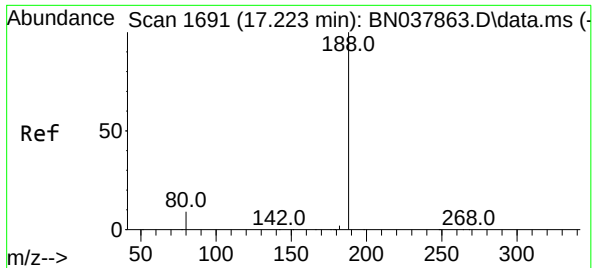
Tgt Ion	154	Resp	11105
Ion Ratio	Lower	Upper	
154	100		
153	113.3	90.5	135.7
152	65.0	51.8	77.8



#18
Fluorene
Concen: 0.390 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	166	Resp	13630
Ion Ratio	Lower	Upper	
166	100		
165	99.0	79.0	118.4
167	12.6	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

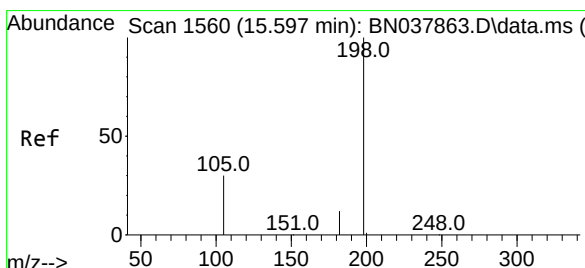
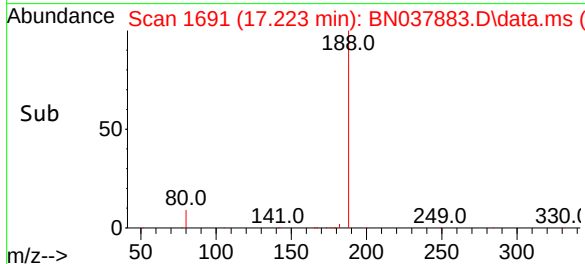
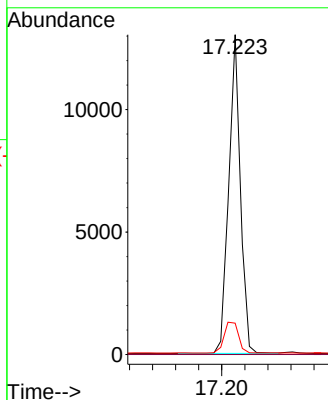
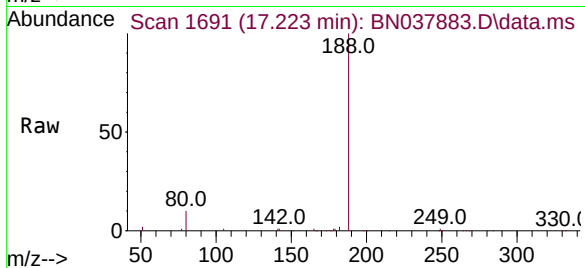
Tgt Ion:188 Resp: 18224

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.416 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

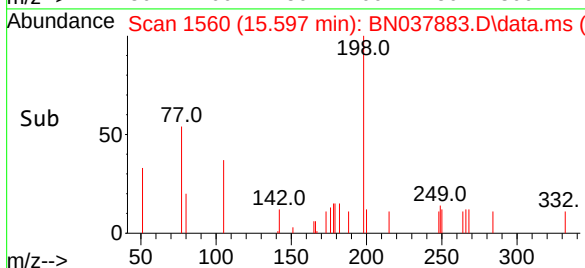
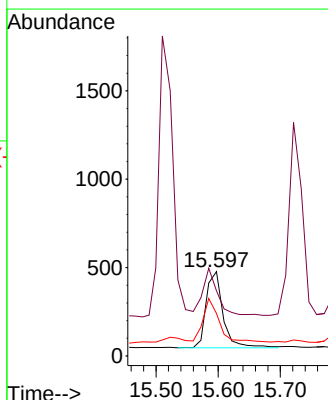
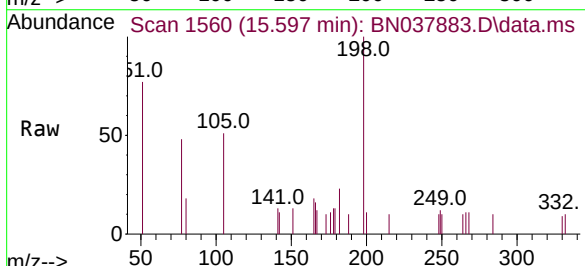
Tgt Ion:198 Resp: 819

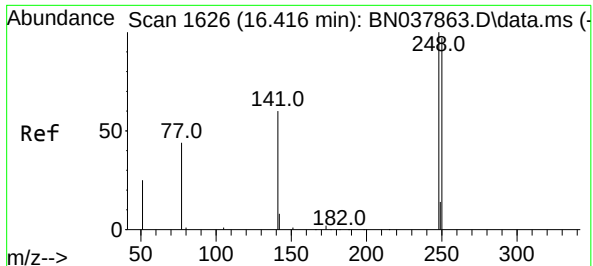
Ion Ratio Lower Upper

198 100

51 77.4 59.1 88.7

105 50.5 41.3 61.9

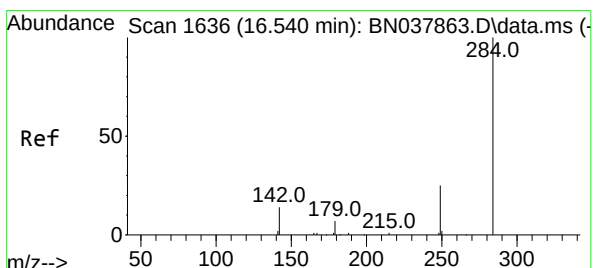
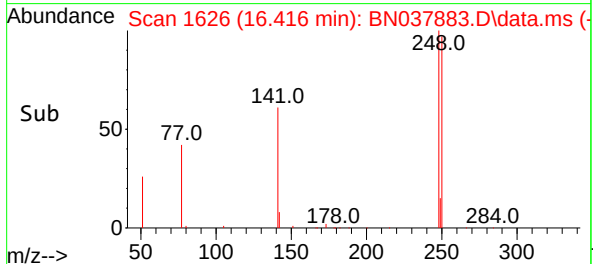
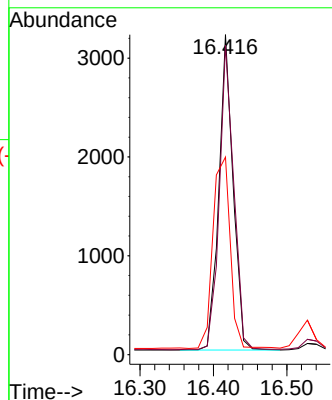
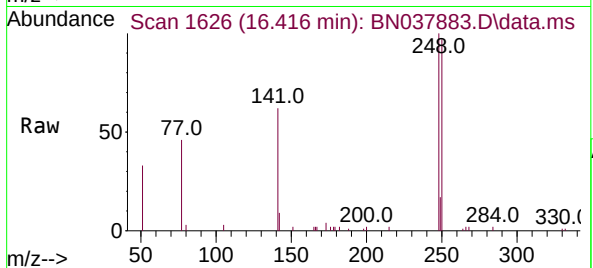




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

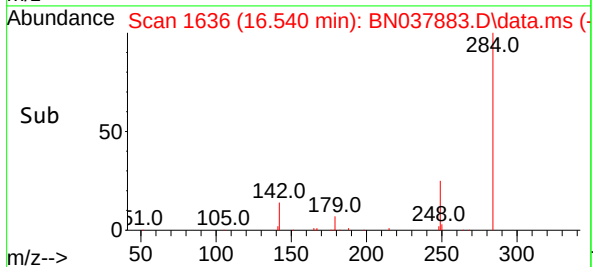
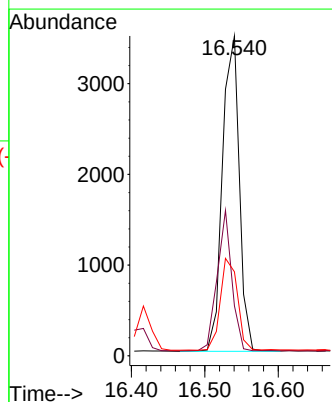
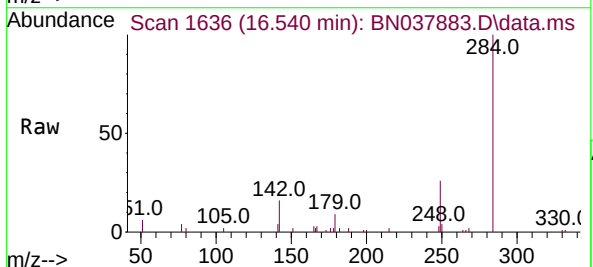
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

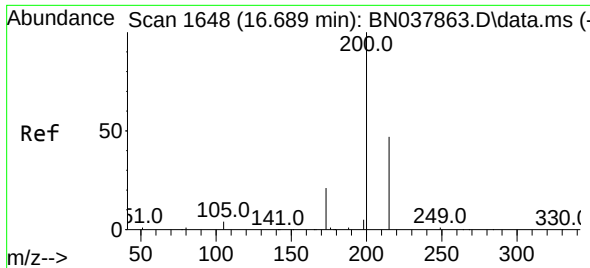
Tgt Ion:248 Resp: 4303
Ion Ratio Lower Upper
248 100
250 96.7 77.6 116.4
141 61.7 48.8 73.2



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:284 Resp: 5574
Ion Ratio Lower Upper
284 100
142 39.0 30.9 46.3
249 29.9 23.9 35.9

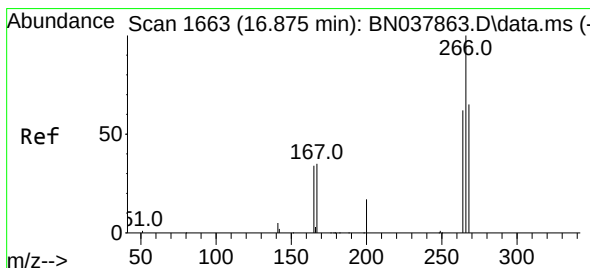
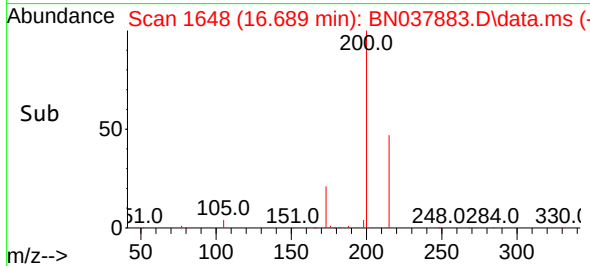
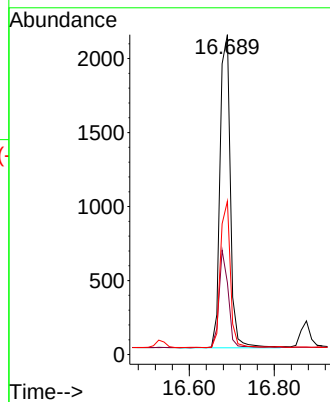
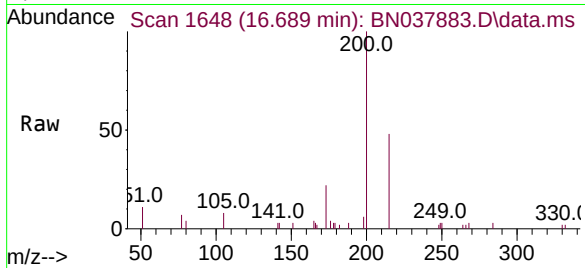




#23
Atrazine
Concen: 0.394 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

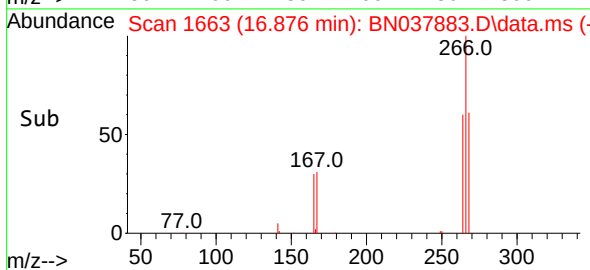
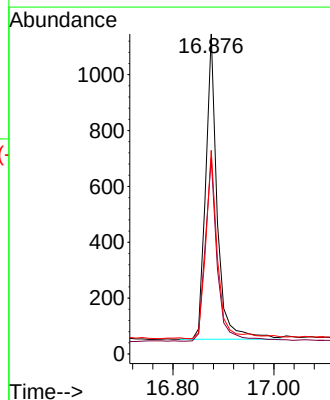
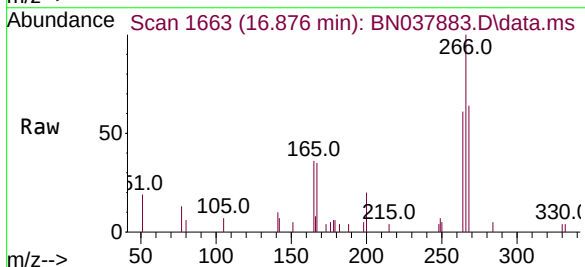
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

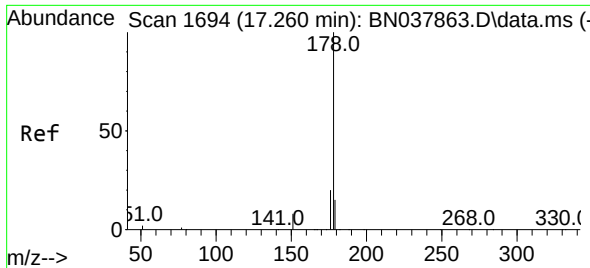
Tgt Ion	200	Resp:	3567
Ion Ratio	Lower	Upper	
200	100		
173	22.5	18.3	27.5
215	47.9	38.6	58.0



#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	266	Resp:	1732
Ion Ratio	Lower	Upper	
266	100		
264	62.2	50.9	76.3
268	63.4	54.3	81.5

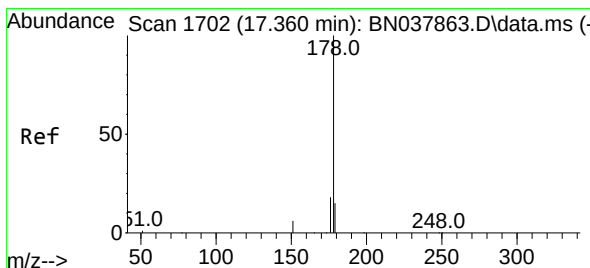
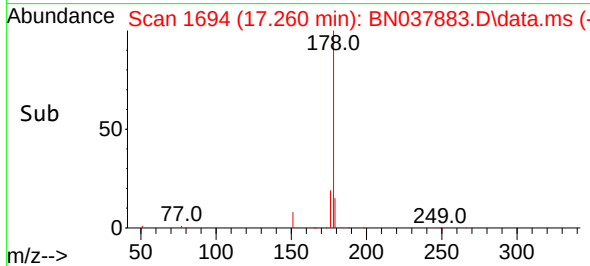
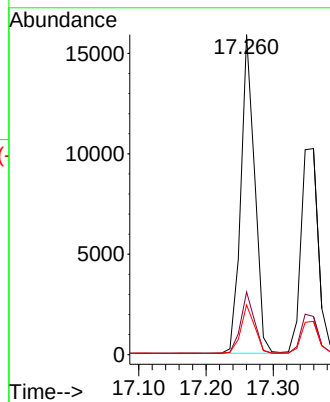
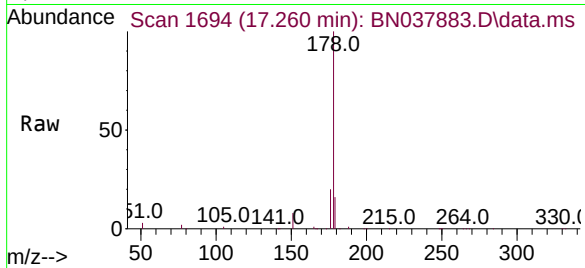




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

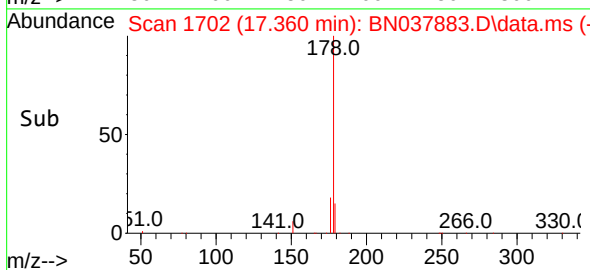
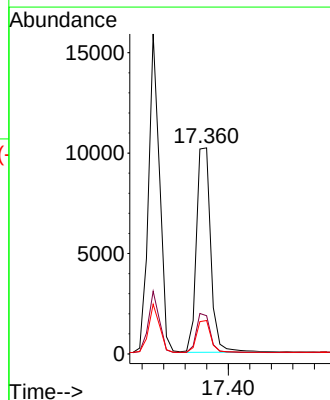
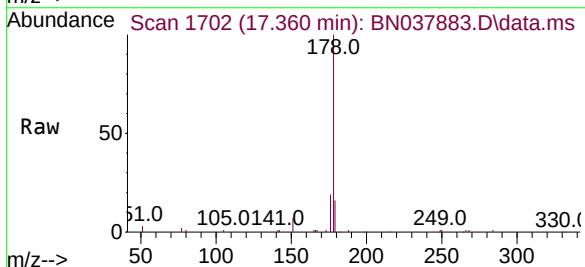
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

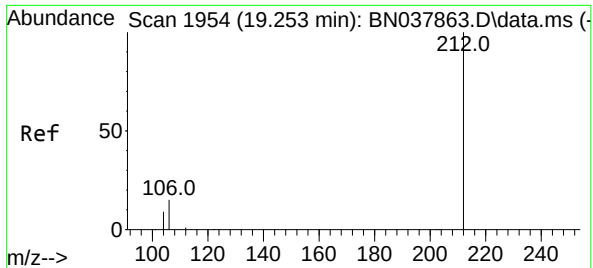
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.2	12.3	18.5



#26
Anthracene
Concen: 0.359 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.4
179	15.3	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

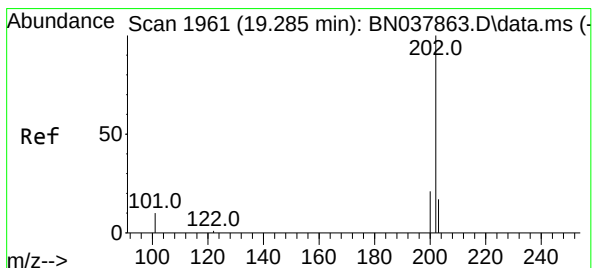
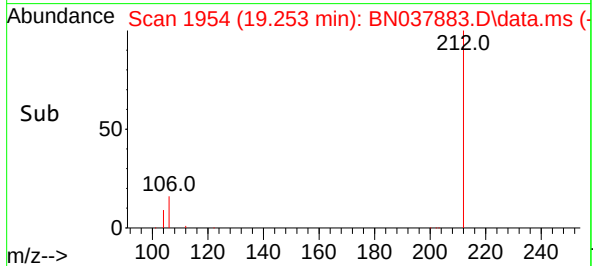
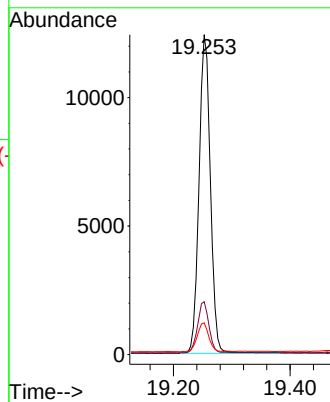
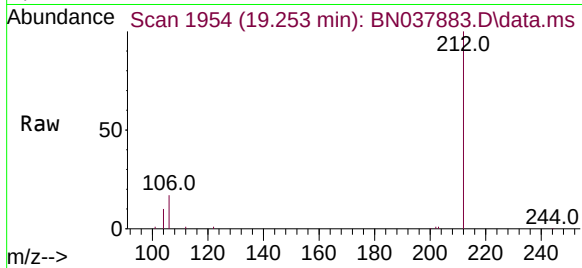
Tgt Ion:212 Resp: 16679

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.366 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

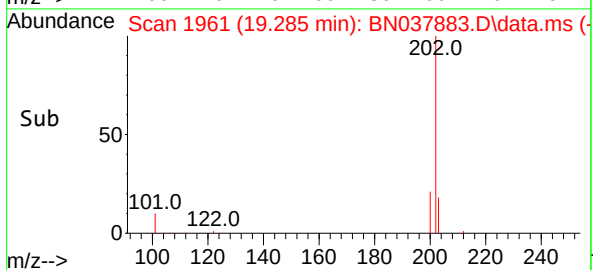
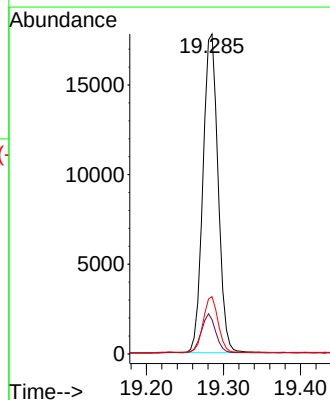
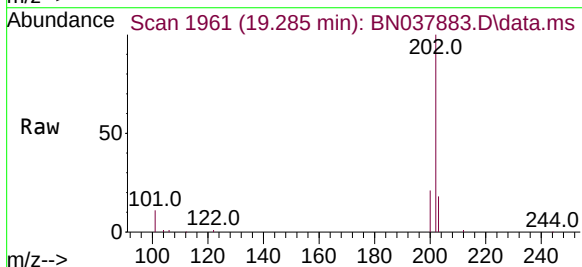
Tgt Ion:202 Resp: 24178

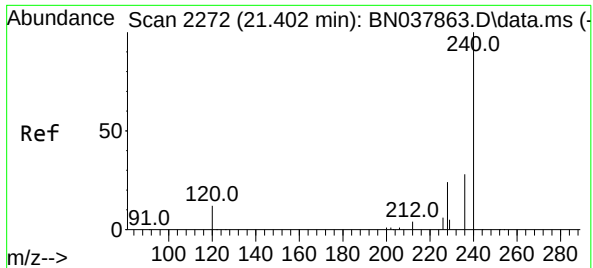
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.2 13.6 20.4

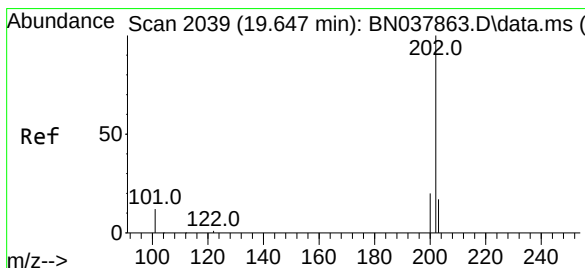
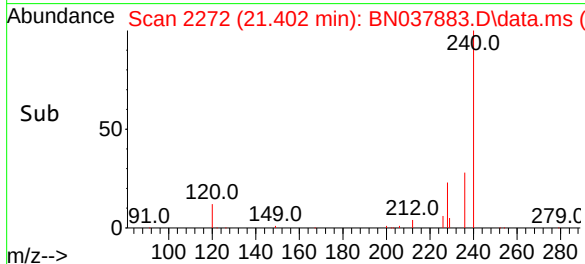
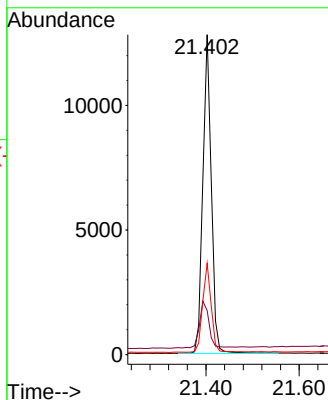
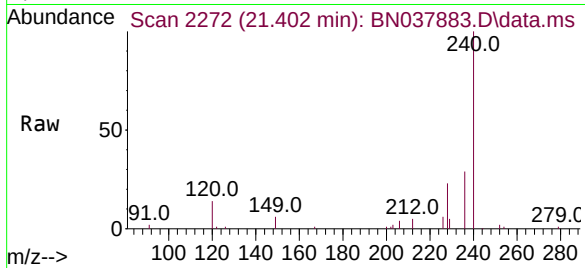




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

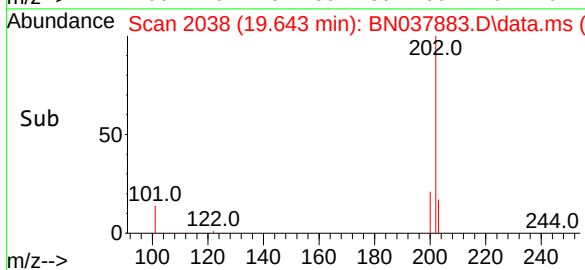
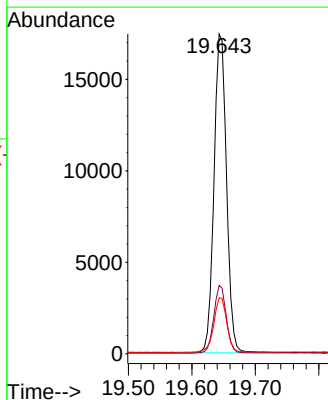
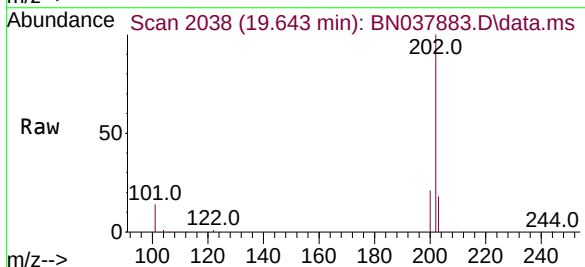
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

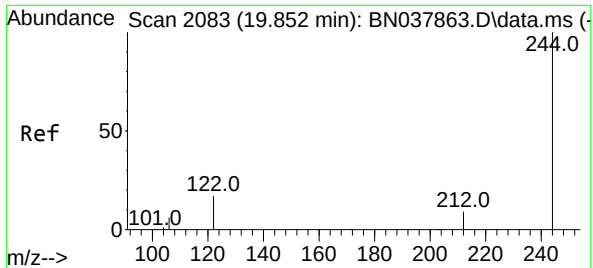
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.8	11.4	17.2
236	28.5	23.0	34.6



#30
Pyrene
Concen: 0.380 ng
RT: 19.643 min Scan# 2038
Delta R.T. -0.005 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4

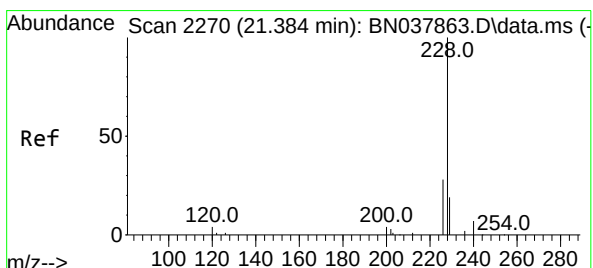
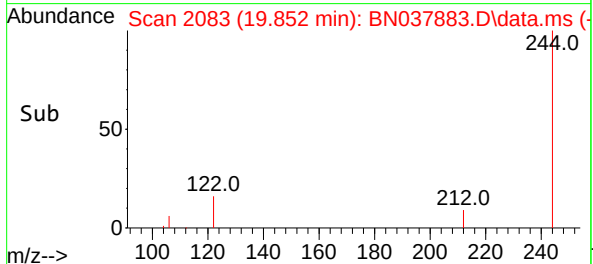
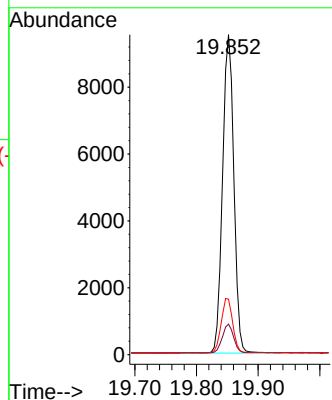
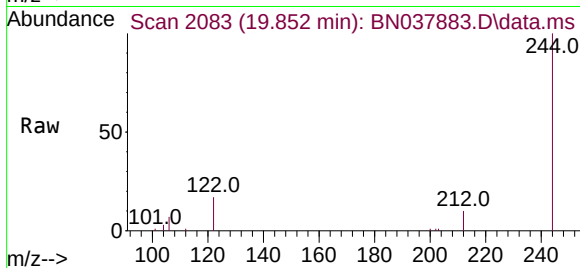




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

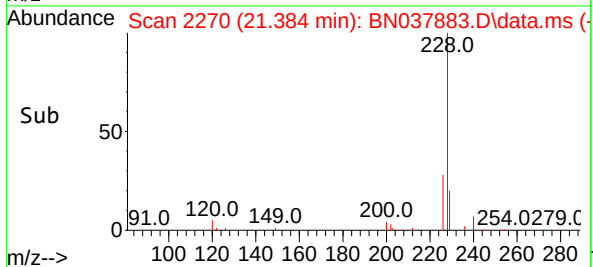
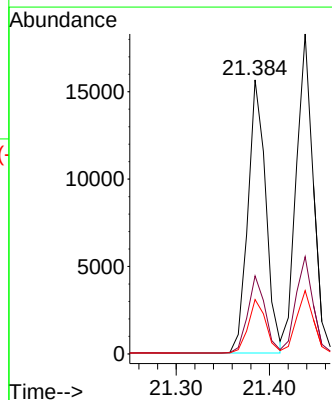
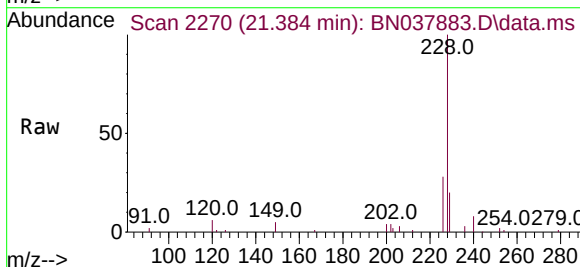
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

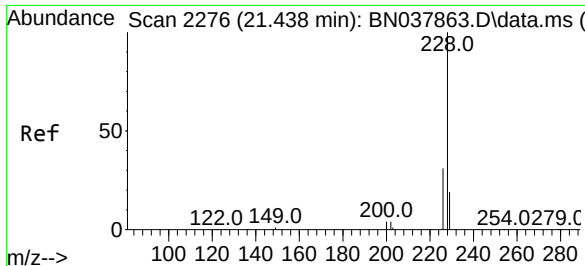
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.8	15.6	23.4

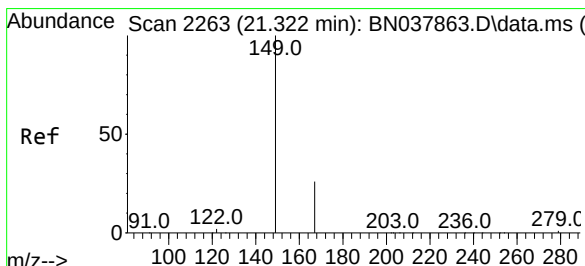
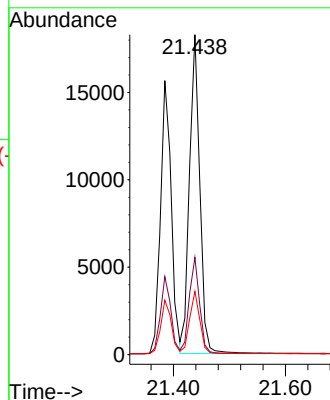
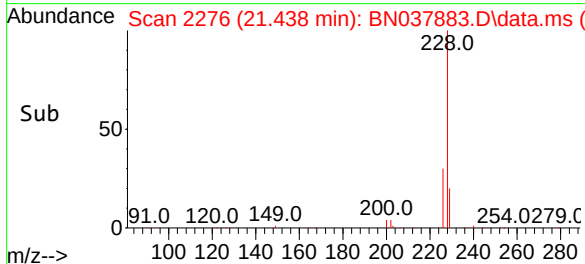
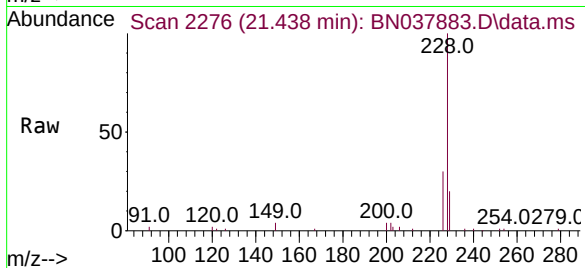




#33
Chrysene
Concen: 0.389 ng
RT: 21.438 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

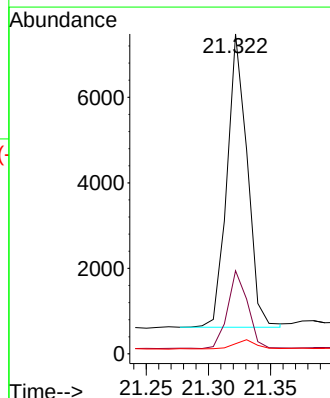
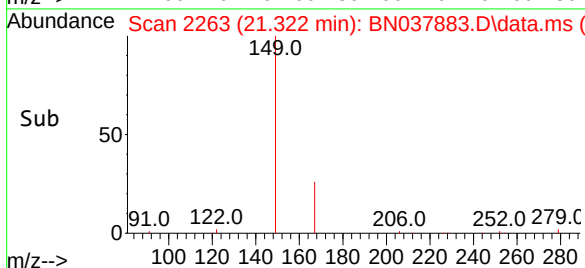
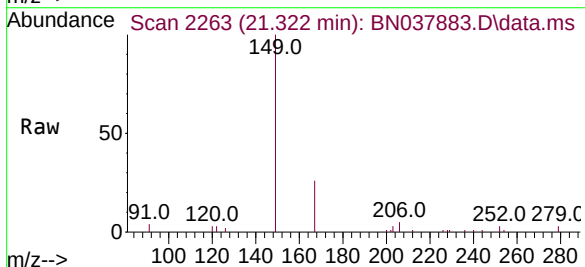
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

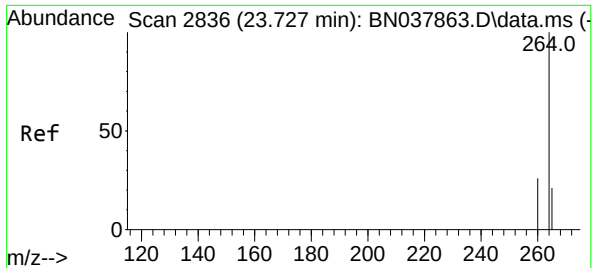
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.8	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.4	30.6
279	3.7	2.4	3.6#

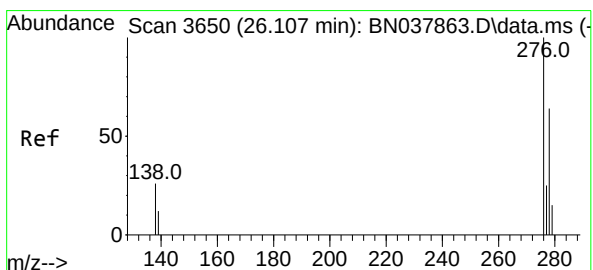
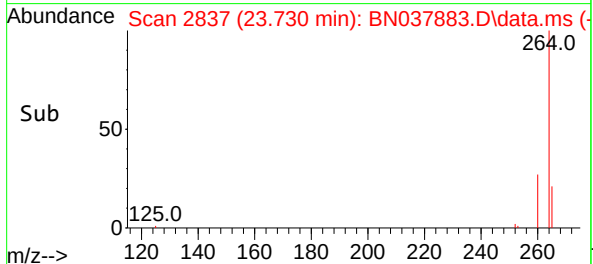
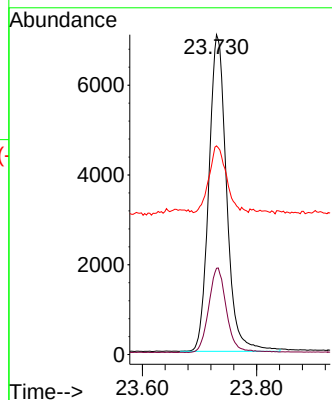
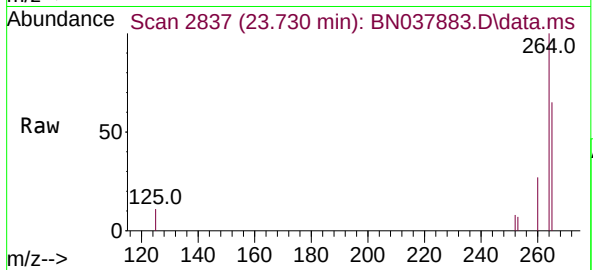




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

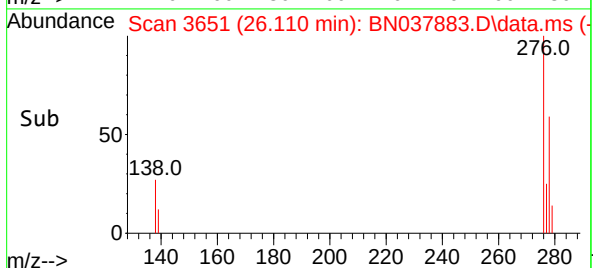
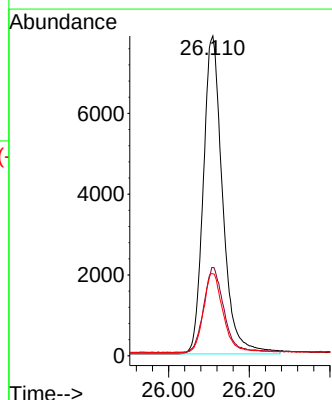
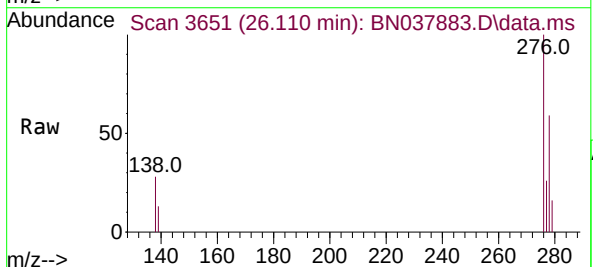
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

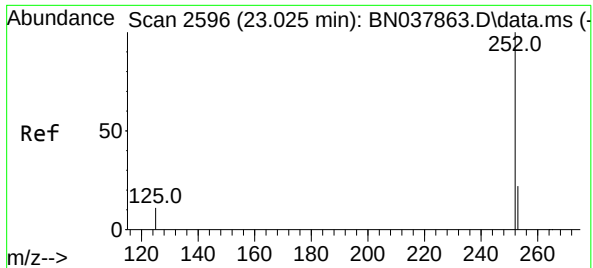
Tgt Ion:264 Resp: 15181
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 65.2 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037883.D
Acq: 25 Sep 2025 11:31

Tgt Ion:276 Resp: 26167
Ion Ratio Lower Upper
276 100
138 27.4 21.4 32.0
277 24.8 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.371 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

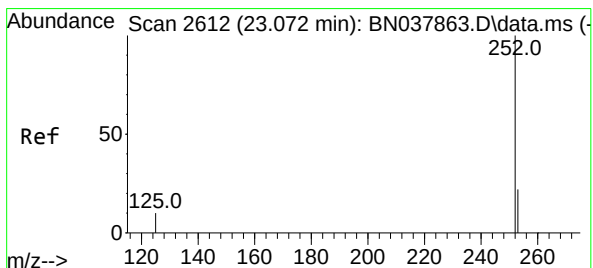
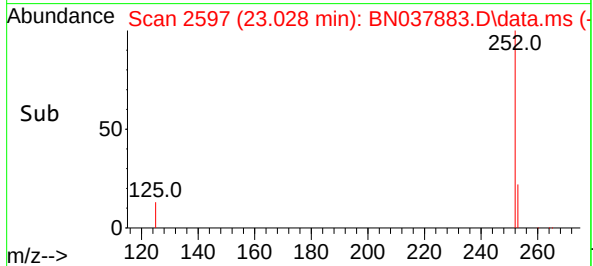
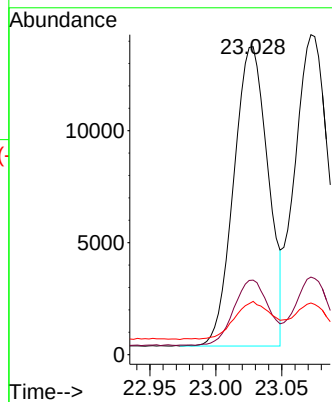
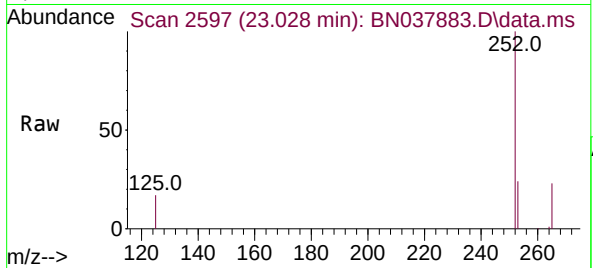
Tgt Ion:252 Resp: 24299

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 17.3 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

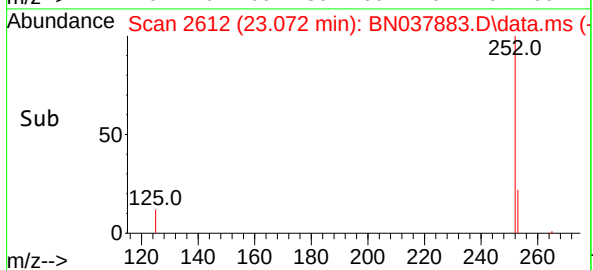
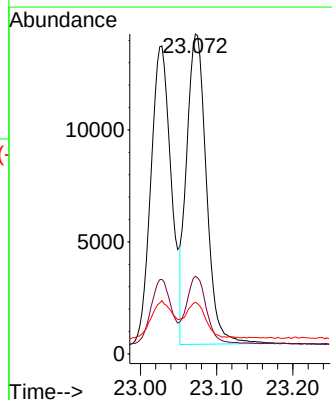
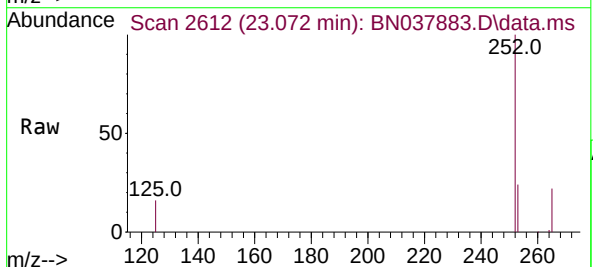
Tgt Ion:252 Resp: 25034

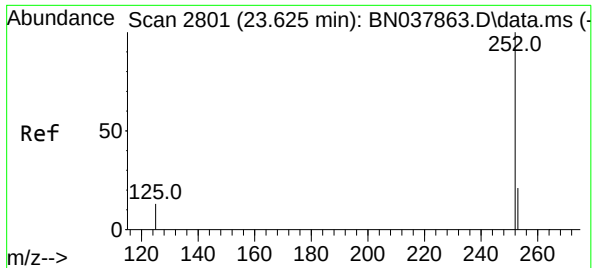
Ion Ratio Lower Upper

252 100

253 24.2 19.5 29.3

125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

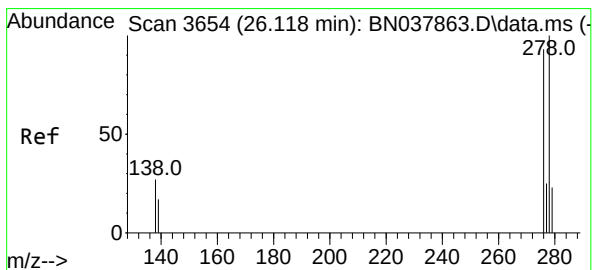
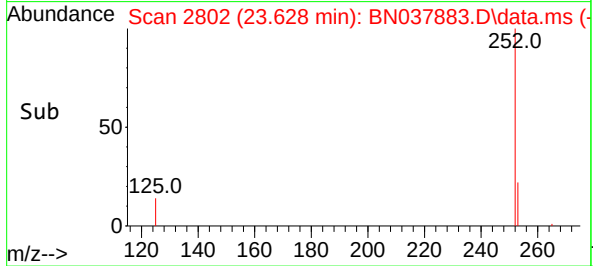
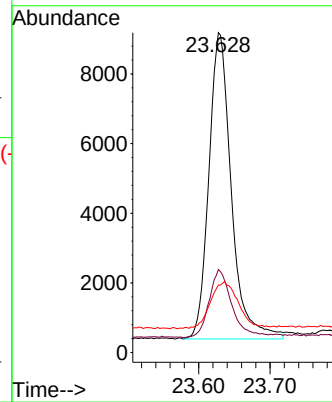
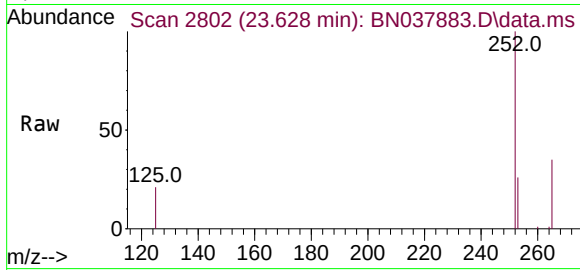
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	19225
Ion Ratio	Lower	Upper	
252	100		
253	26.0	20.6	30.8
125	21.1	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

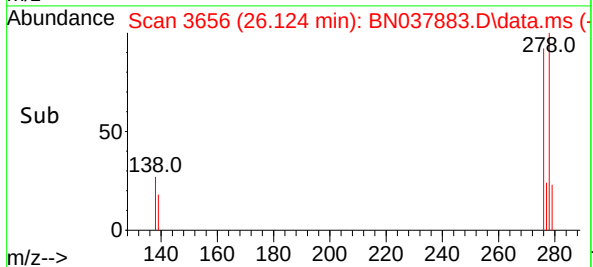
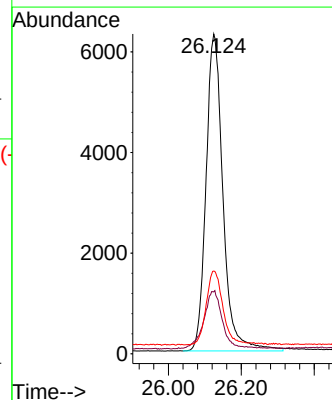
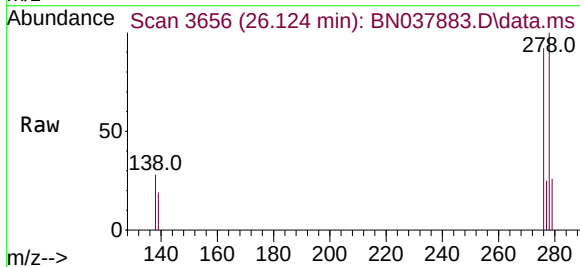
RT: 26.124 min Scan# 3656

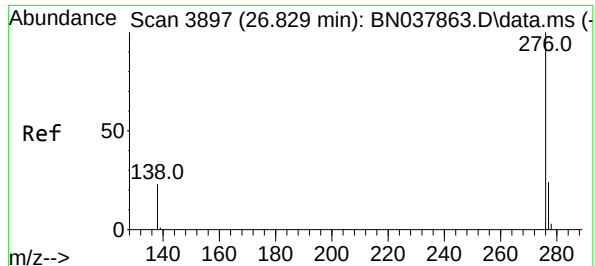
Delta R.T. 0.006 min

Lab File: BN037883.D

Acq: 25 Sep 2025 11:31

Tgt Ion:	278	Resp:	20318
Ion Ratio	Lower	Upper	
278	100		
139	19.4	15.4	23.2
279	25.9	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037883.D

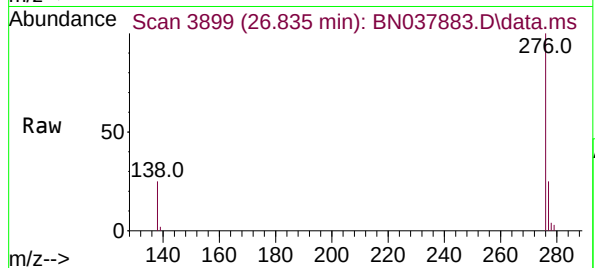
Acq: 25 Sep 2025 11:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



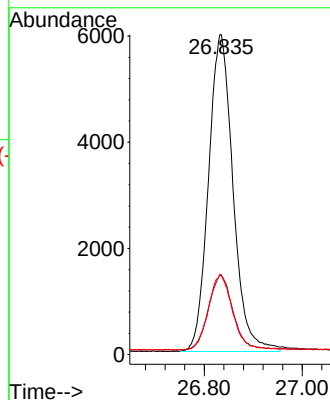
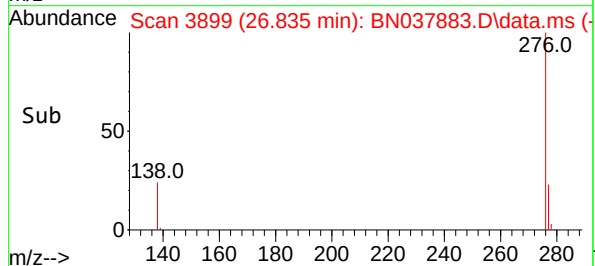
Tgt Ion:276 Resp: 20812

Ion Ratio Lower Upper

276 100

277 24.7 20.2 30.4

138 24.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
 Data File : BN037883.D
 Acq On : 25 Sep 2025 11:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2	1,4-Dioxane	0.406	0.421	-3.7	105	0.00
3	n-Nitrosodimethylamine	0.540	0.519	3.9	102	0.00
4 S	2-Fluorophenol	0.913	0.967	-5.9	115	0.00
5 S	Phenol-d6	1.199	1.243	-3.7	113	0.00
6	bis(2-Chloroethyl)ether	1.113	1.110	0.3	105	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.305	0.321	-5.2	119	0.00
9	Naphthalene	1.102	1.100	0.2	113	0.00
10	Hexachlorobutadiene	0.188	0.193	-2.7	114	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.515	7.4	111	0.00
12	2-Methylnaphthalene	0.720	0.697	3.2	112	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.152	0.143	5.9	115	0.00
15 S	2-Fluorobiphenyl	1.638	1.650	-0.7	115	0.00
16	Acenaphthylene	1.816	1.726	5.0	113	0.00
17	Acenaphthene	1.294	1.242	4.0	112	0.00
18	Fluorene	1.565	1.525	2.6	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	118	0.00
21	4-Bromophenyl-phenylether	0.261	0.236	9.6	110	0.00
22	Hexachlorobenzene	0.316	0.306	3.2	115	0.00
23	Atrazine	0.199	0.196	1.5	130	0.00
24	Pentachlorophenol	0.108	0.095	12.0	118	0.00
25	Phenanthrene	1.316	1.236	6.1	115	0.00
26	Anthracene	1.142	1.026	10.2	115	0.00
27 SURR	Fluoranthene-d10	1.006	0.915	9.0	118	0.00
28	Fluoranthene	1.450	1.327	8.5	116	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	1.579	1.498	5.1	116	0.00
31 S	Terphenyl-d14	0.797	0.754	5.4	118	0.00
32	Benzo(a)anthracene	1.398	1.302	6.9	118	0.00
33	Chrysene	1.512	1.468	2.9	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.487	11.9	117	0.00
35 I	Perylene-d12	1.000	1.000	0.0	121	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.724	5.7	125	0.00
37	Benzo(b)fluoranthene	1.725	1.601	7.2	118	0.00
38	Benzo(k)fluoranthene	1.736	1.649	5.0	125	0.00
39 C	Benzo(a)pyrene	1.364	1.266	7.2	124	0.00
40	Dibenzo(a,h)anthracene	1.427	1.338	6.2	124	0.00
41	Benzo(g,h,i)perylene	1.499	1.371	8.5	118	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037883.D
Acq On : 25 Sep 2025 11:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 25 13:29:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	102	0.00
2	1,4-Dioxane	0.400	0.415	-3.7	105	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	102	0.00
4 S	2-Fluorophenol	0.400	0.424	-6.0	115	0.00
5 S	Phenol-d6	0.400	0.415	-3.7	113	0.00
6	bis(2-Chloroethyl)ether	0.400	0.399	0.3	105	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.421	-5.2	119	0.00
9	Naphthalene	0.400	0.399	0.3	113	0.00
10	Hexachlorobutadiene	0.400	0.410	-2.5	114	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.371	7.3	111	0.00
12	2-Methylnaphthalene	0.400	0.387	3.3	112	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.378	5.5	115	0.00
15 S	2-Fluorobiphenyl	0.400	0.403	-0.8	115	0.00
16	Acenaphthylene	0.400	0.380	5.0	113	0.00
17	Acenaphthene	0.400	0.384	4.0	112	0.00
18	Fluorene	0.400	0.390	2.5	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.416	-4.0	118	0.00
21	4-Bromophenyl-phenylether	0.400	0.362	9.5	110	0.00
22	Hexachlorobenzene	0.400	0.387	3.3	115	0.00
23	Atrazine	0.400	0.394	1.5	130	0.00
24	Pentachlorophenol	0.400	0.351	12.3	118	0.00
25	Phenanthrene	0.400	0.375	6.3	115	0.00
26	Anthracene	0.400	0.359	10.3	115	0.00
27 SURR	Fluoranthene-d10	0.400	0.364	9.0	118	0.00
28	Fluoranthene	0.400	0.366	8.5	116	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.380	5.0	116	0.00
31 S	Terphenyl-d14	0.400	0.379	5.3	118	0.00
32	Benzo(a)anthracene	0.400	0.373	6.8	118	0.00
33	Chrysene	0.400	0.389	2.8	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	117	0.00
35 I	Perylene-d12	0.400	0.400	0.0	121	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	125	0.00
37	Benzo(b)fluoranthene	0.400	0.371	7.3	118	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	125	0.00
39 C	Benzo(a)pyrene	0.400	0.371	7.3	124	0.00
40	Dibenzo(a,h)anthracene	0.400	0.375	6.3	124	0.00
41	Benzo(g,h,i)perylene	0.400	0.366	8.5	118	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



QC SAMPLE DATA

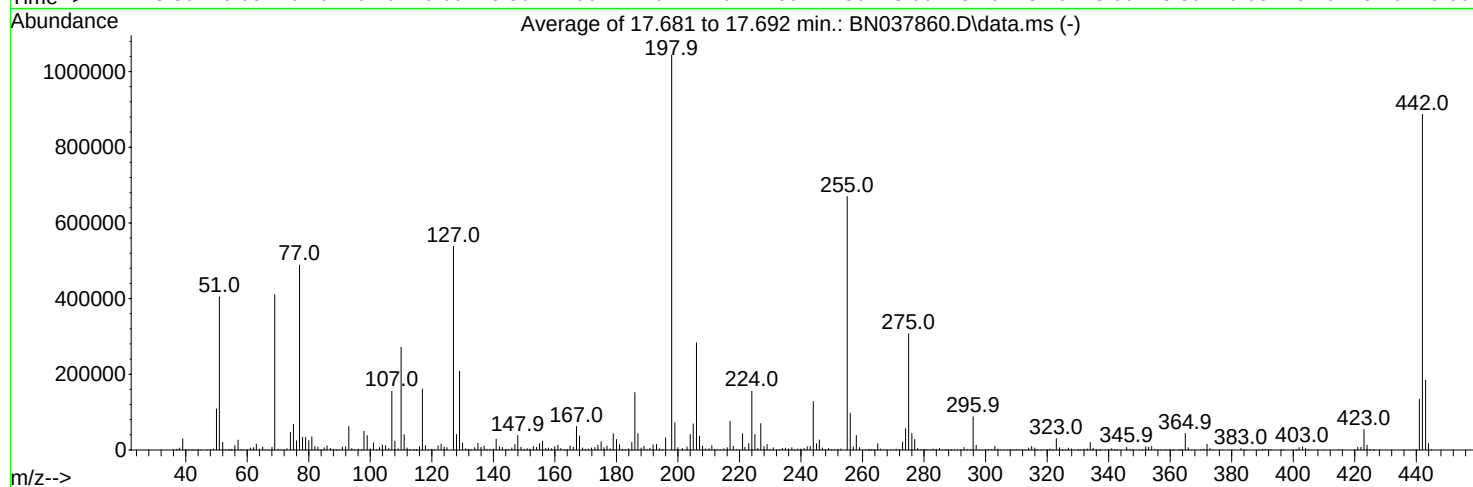
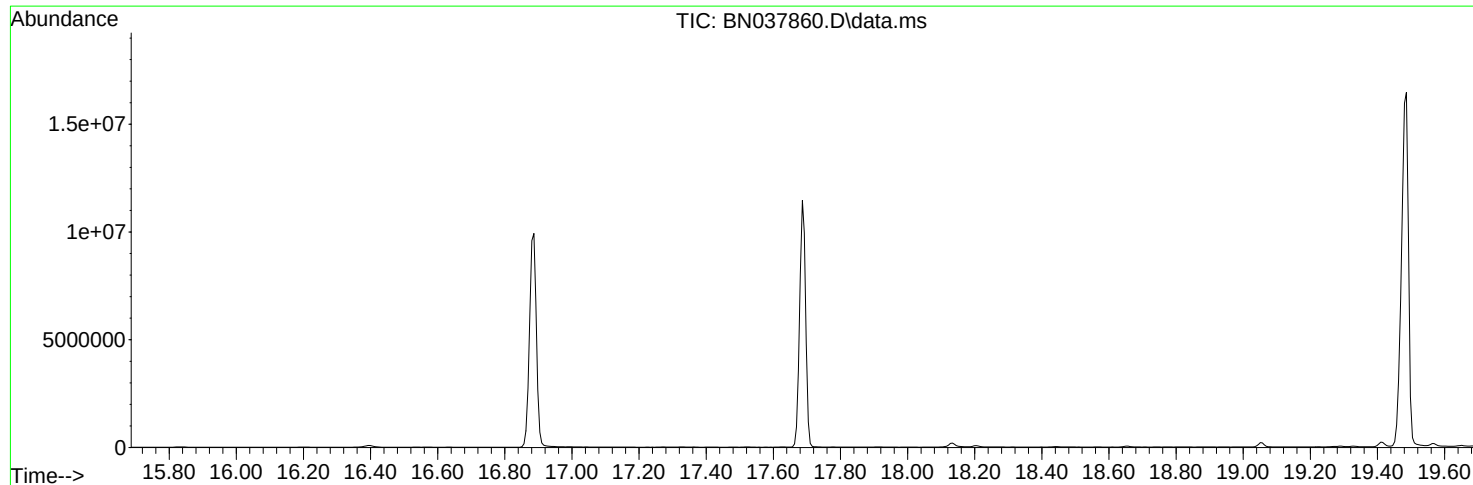
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Sep 23 17:30:29 2025



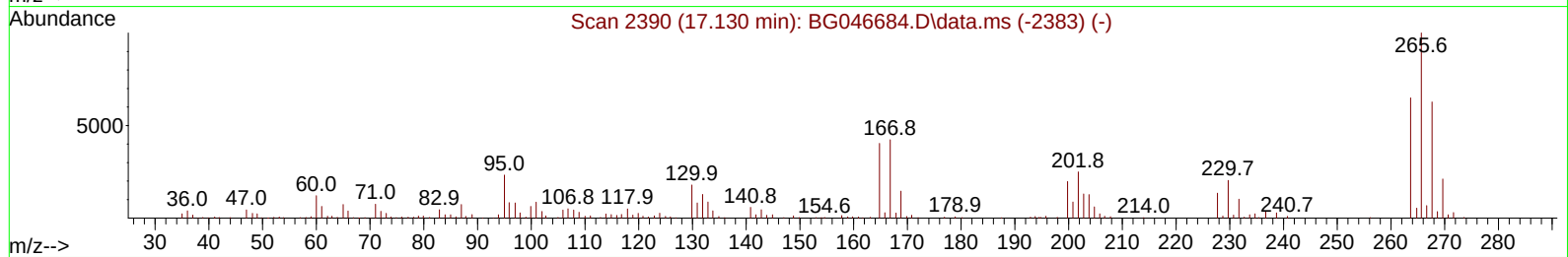
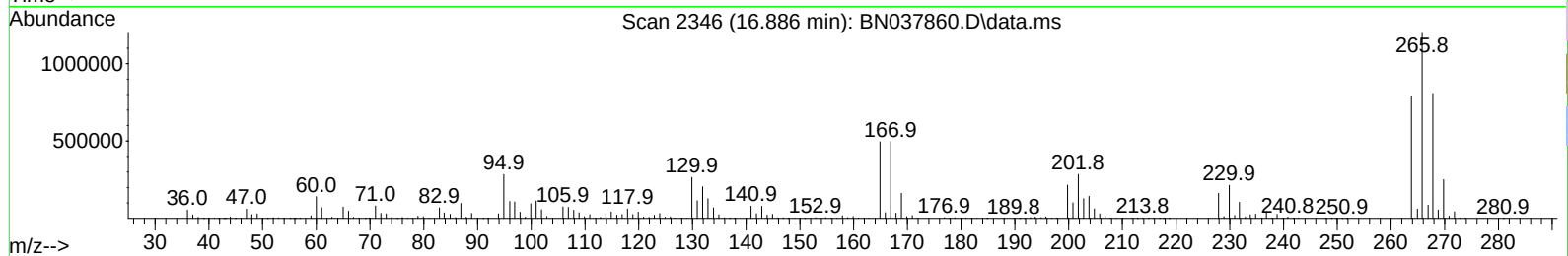
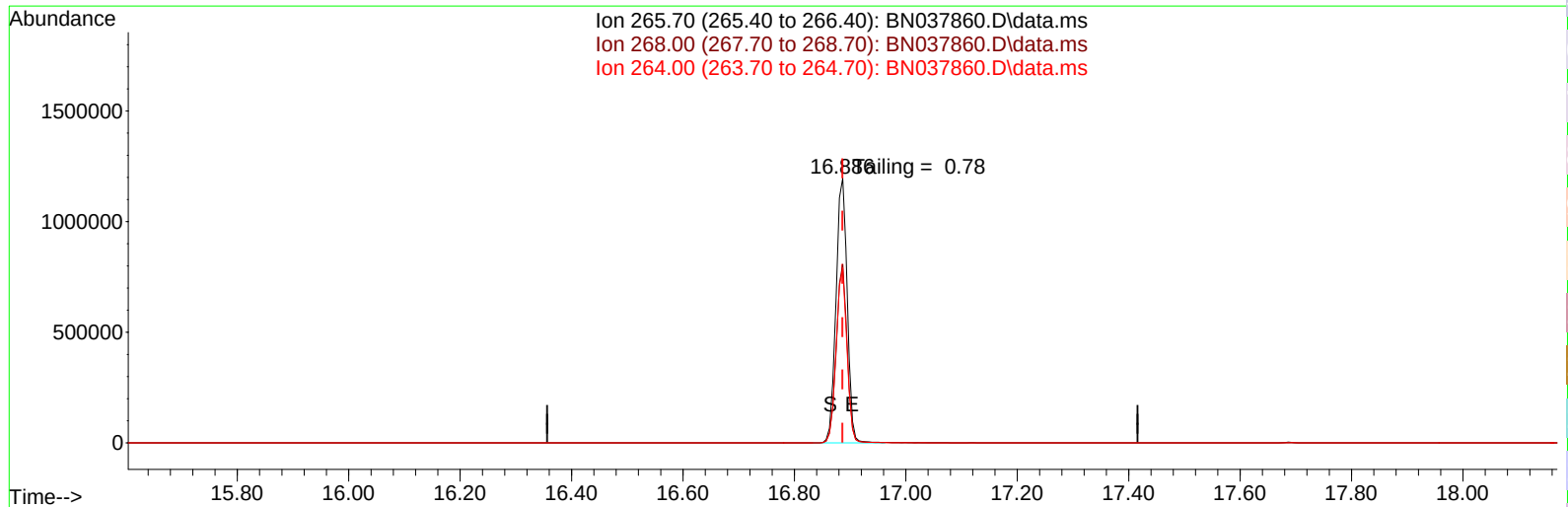
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	7592	PASS
69	69	100	100	100.0	410472	PASS
70	69	0.00	2	0.6	2535	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1043541	PASS
199	198	5	9	6.9	71928	PASS
365	198	1	100	4.2	43627	PASS
441	443	0.01	150	72.6	133917	PASS
442	442	100	100	100.0	886933	PASS
443	442	15	24	20.8	184525	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037860.D\data.ms

(70) Pentachlorophenol (C)

16.886min (+ 0.001) 30744.23 ng

response 1679260

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.46
264.00	61.60	66.17
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

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Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

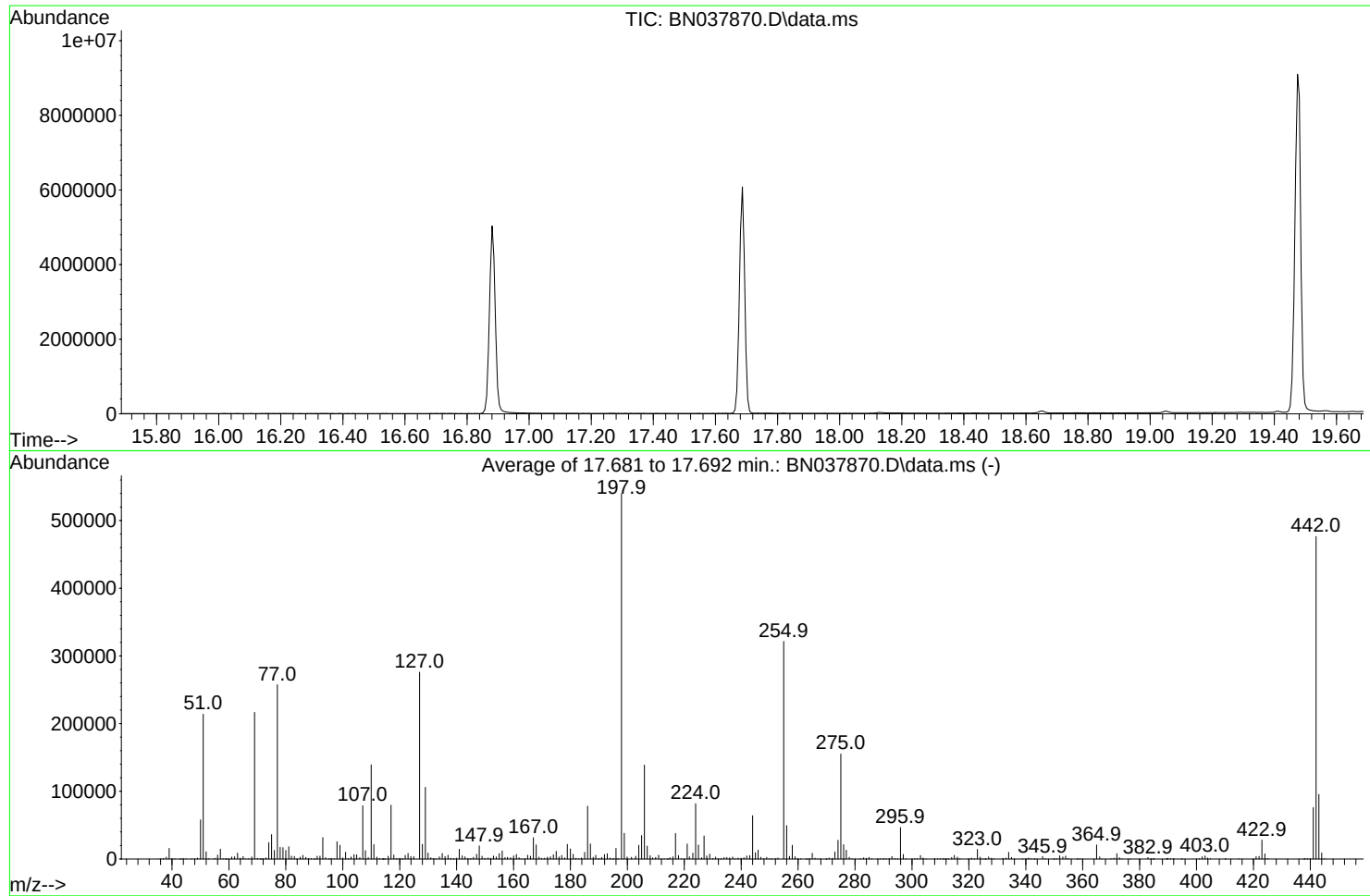
Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	<u>BN037860.D</u>
Compound Name	Response	Retention Time
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11961	4317957	0.28

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025



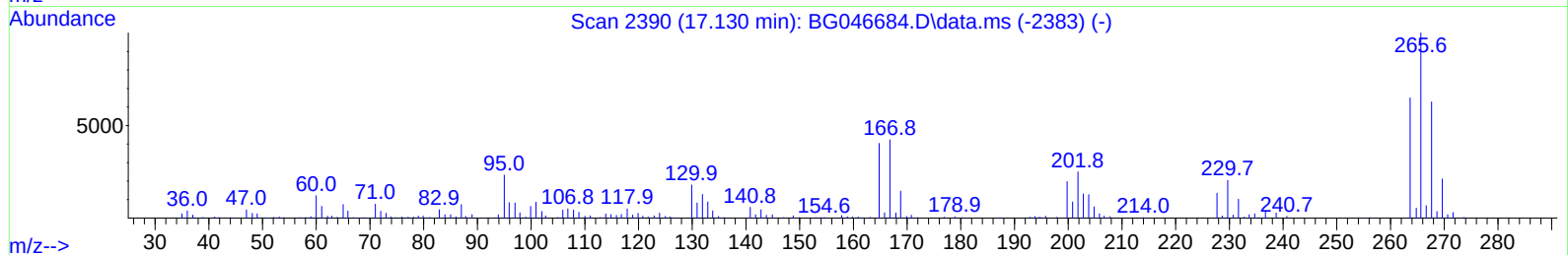
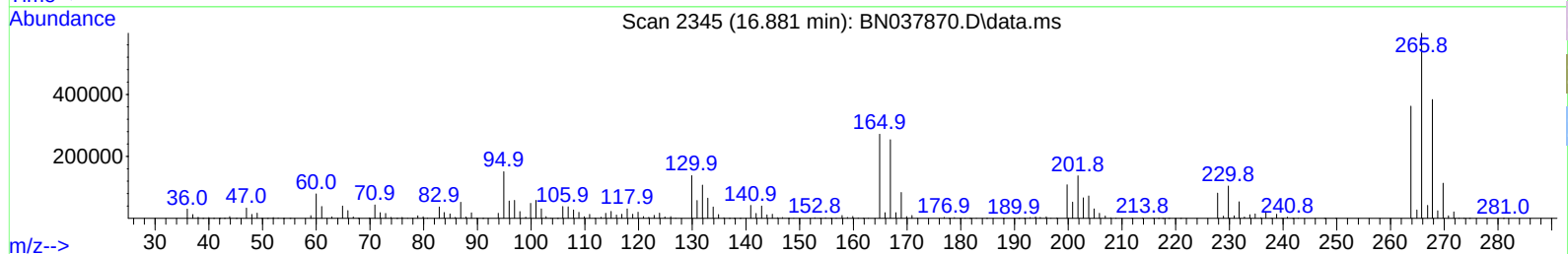
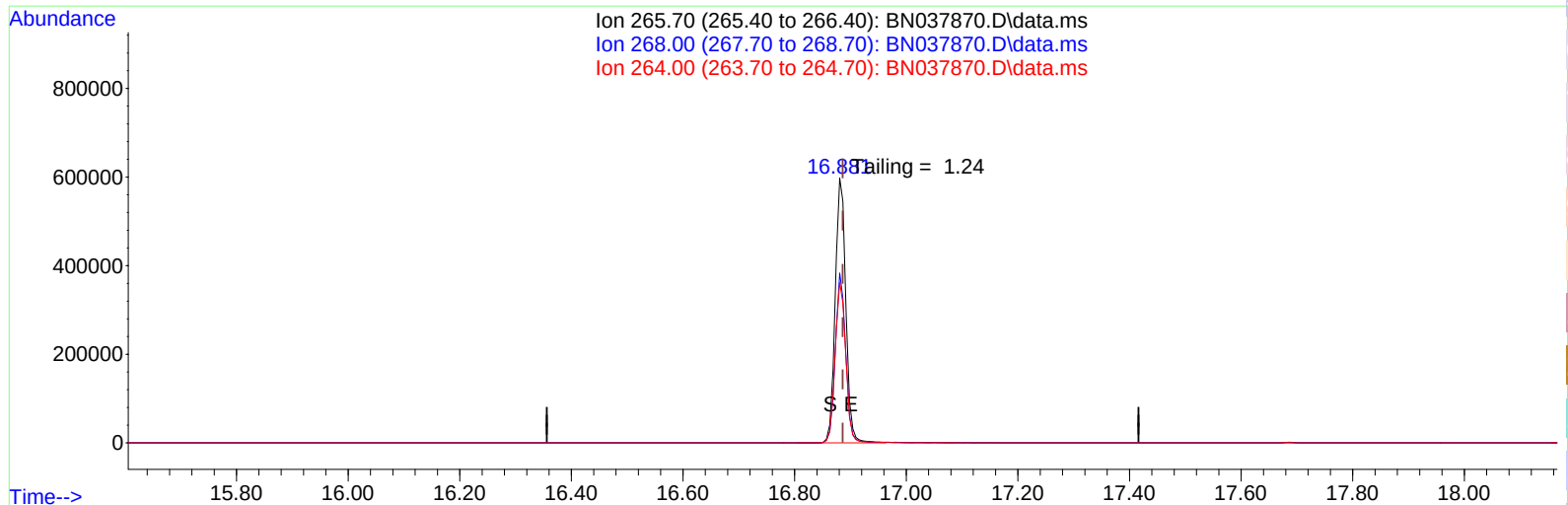
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.5	3143	PASS
69	69	100	100	100.0	216661	PASS
70	69	0.00	2	0.5	1168	PASS
197	198	0.00	2	0.2	839	PASS
198	198	100	100	100.0	539285	PASS
199	198	5	9	7.1	38096	PASS
365	198	1	100	3.8	20696	PASS
441	443	0.01	150	79.6	76072	PASS
442	442	100	100	100.0	476331	PASS
443	442	15	24	20.1	95557	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037870.D\data.ms

(70) Pentachlorophenol (C)

16.881min (-0.005) 29214.29 ng

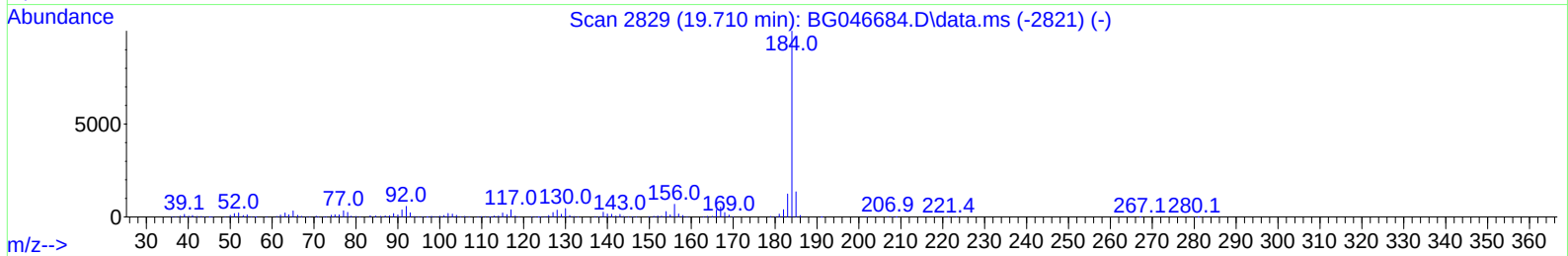
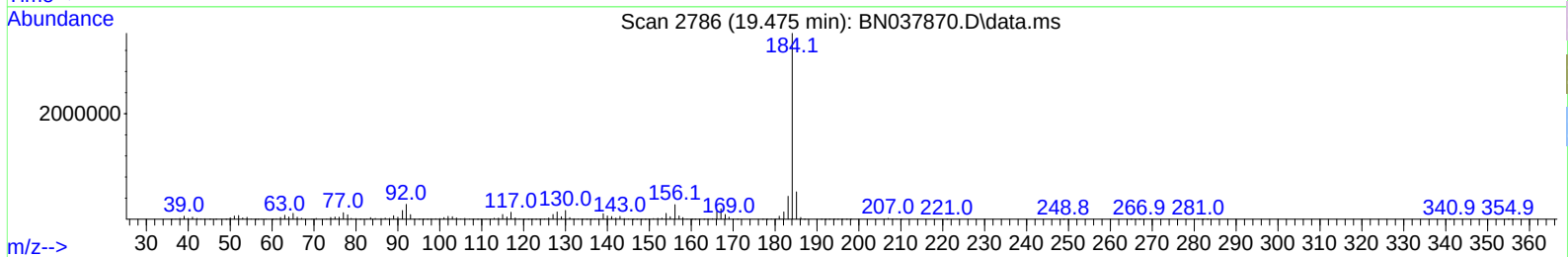
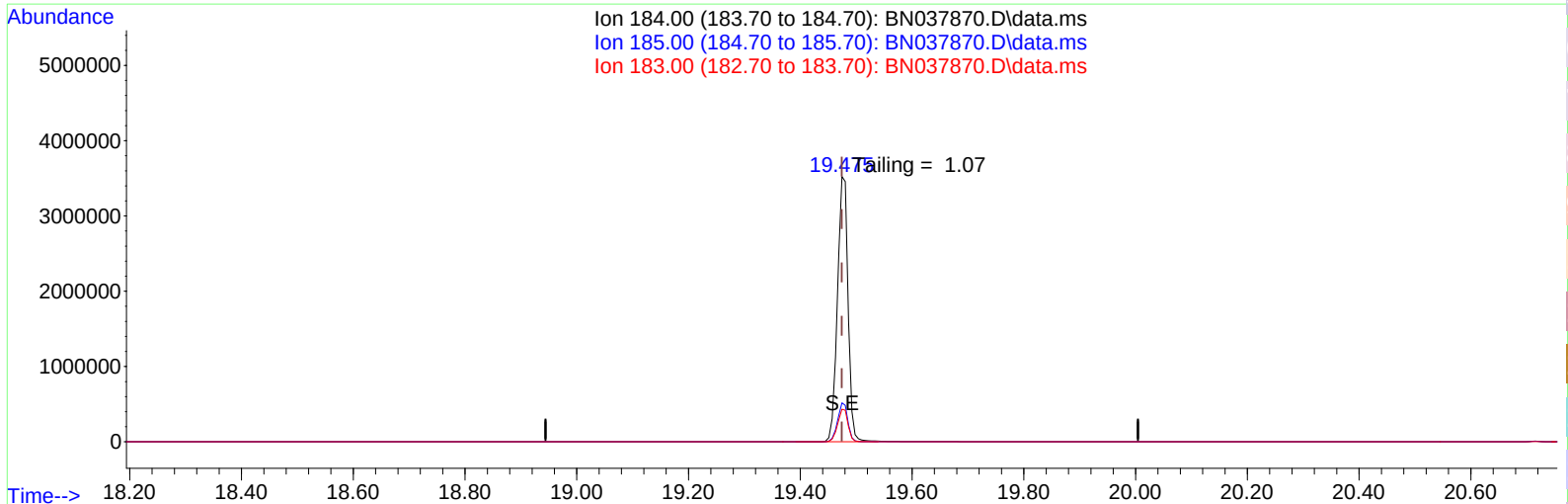
response 795325

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.18
264.00	61.60	60.63
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037870.D
Acq On : 24 Sep 2025 09:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 24 11:37:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037870.D\data.ms

(77) Benzidine

19.475min (+ 0.001) 0.00 ng

response 4681423

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.71
183.00	13.20	12.33
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

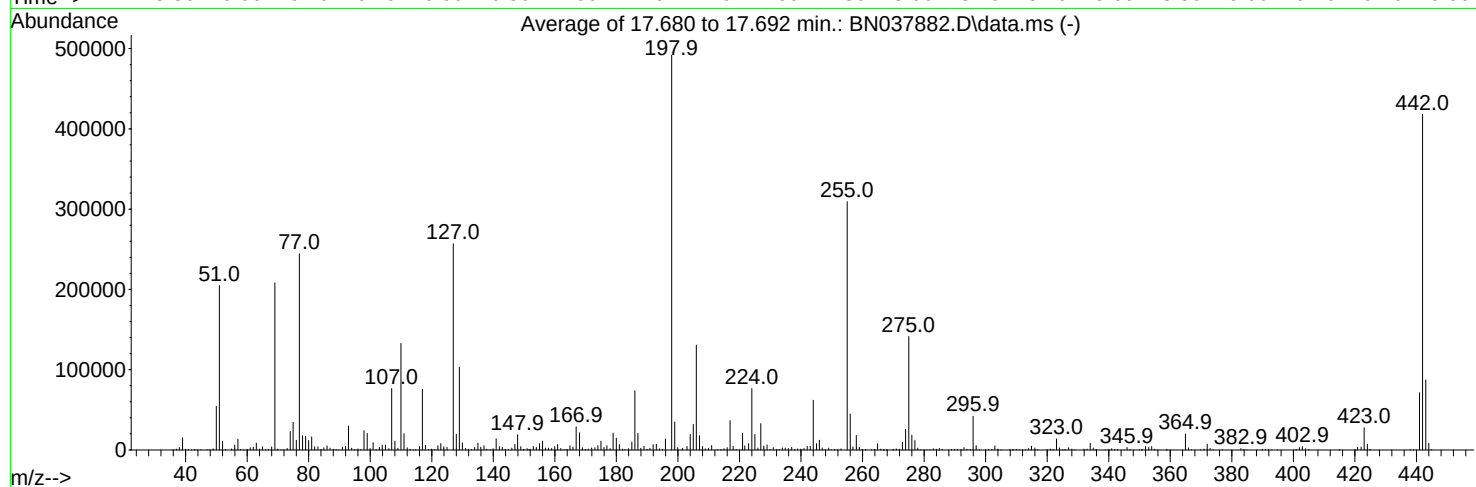
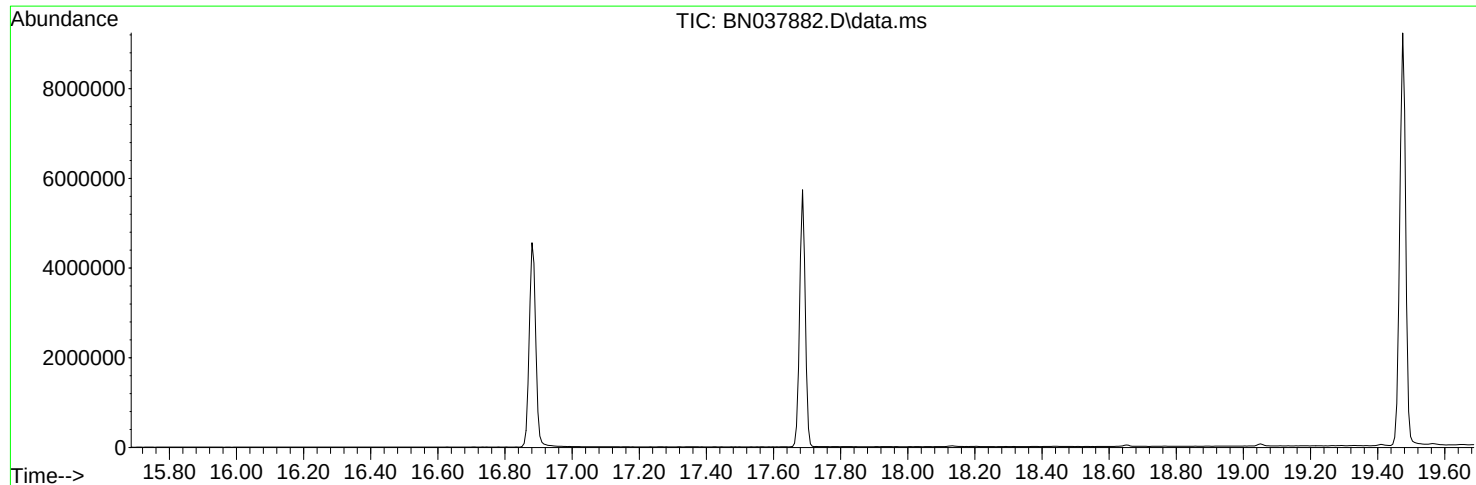
Date	Instrument Name	DFTPP Data File
9/24/2025	BNA_N	<u>BN037870.D</u>
Compound Name	Response	Retention Time
DDT	2091319	20.716
DDD	5093	20.328
DDE	153	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5246	2096565	0.25

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025



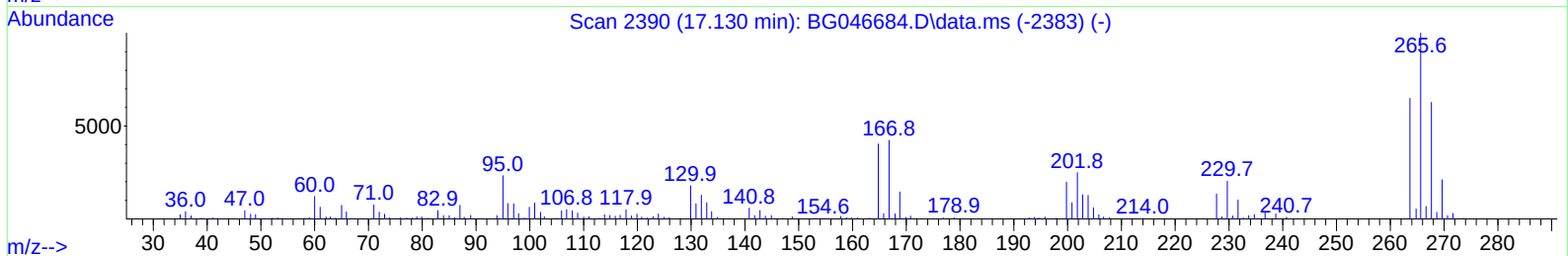
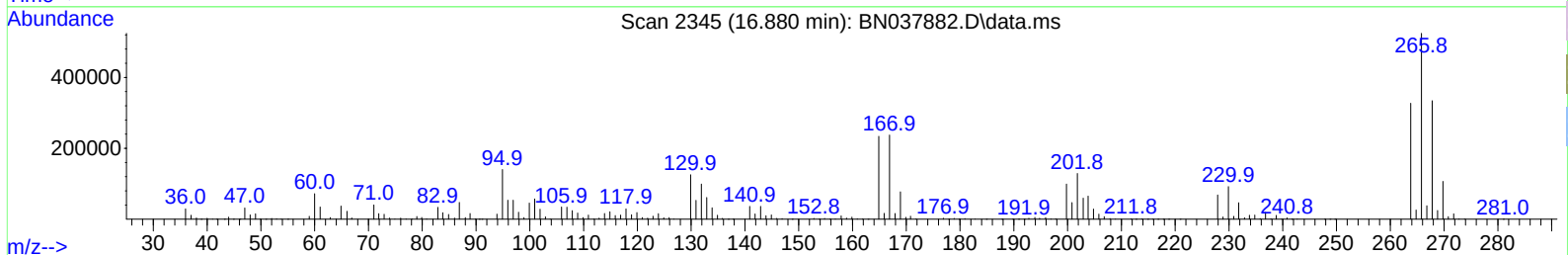
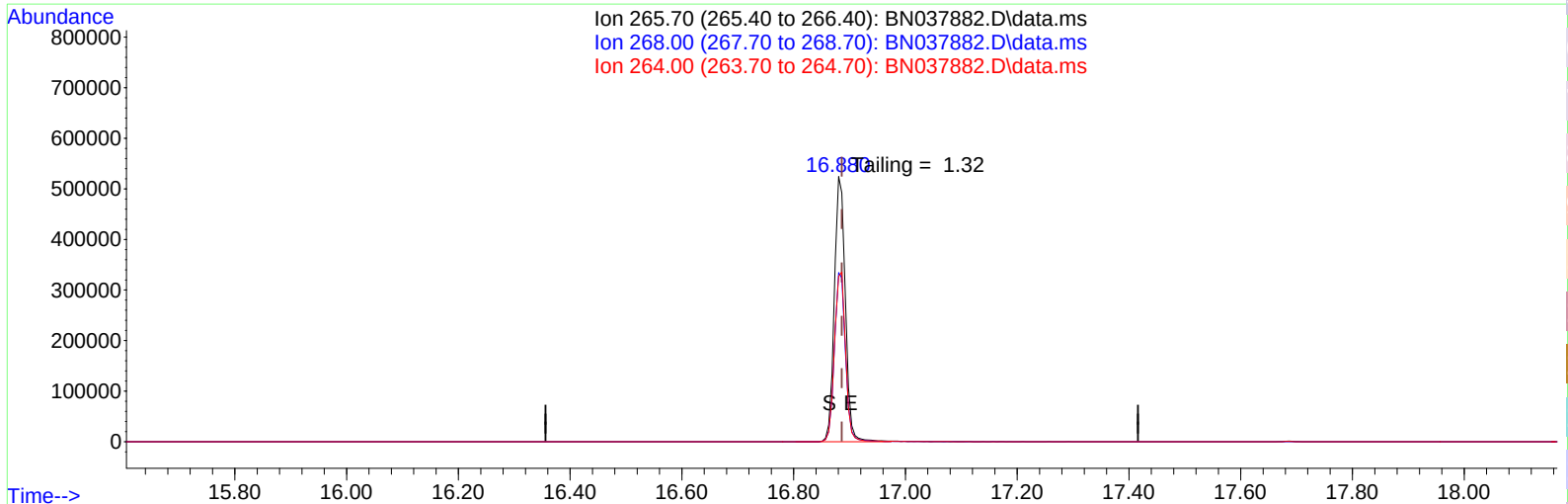
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3756	PASS
69	69	100	100	100.0	208299	PASS
70	69	0.00	2	0.5	1072	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	491925	PASS
199	198	5	9	7.1	34720	PASS
365	198	1	100	4.0	19900	PASS
441	443	0.01	150	81.7	71253	PASS
442	442	100	100	100.0	417920	PASS
443	442	15	24	20.9	87163	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037882.D\data.ms

(70) Pentachlorophenol (C)

16.880min (-0.006) 31548.12 ng

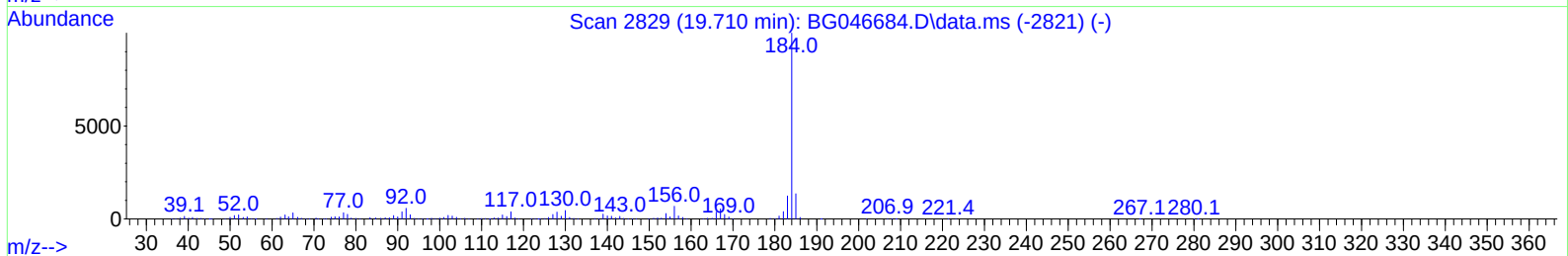
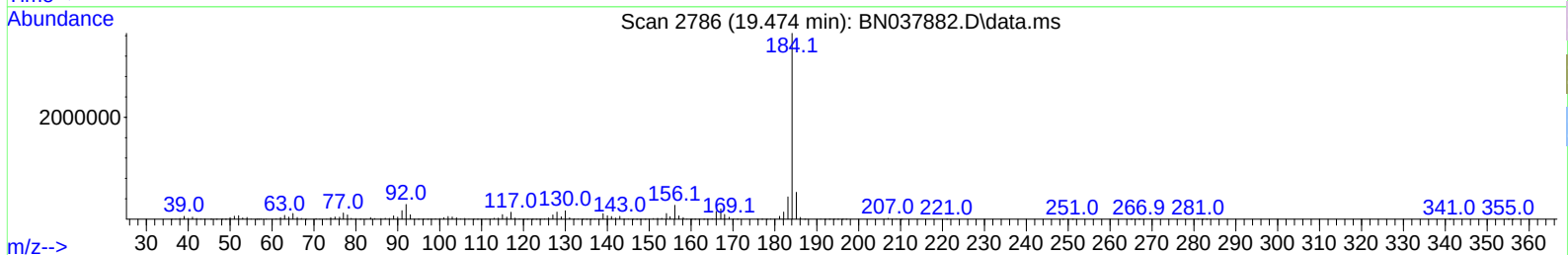
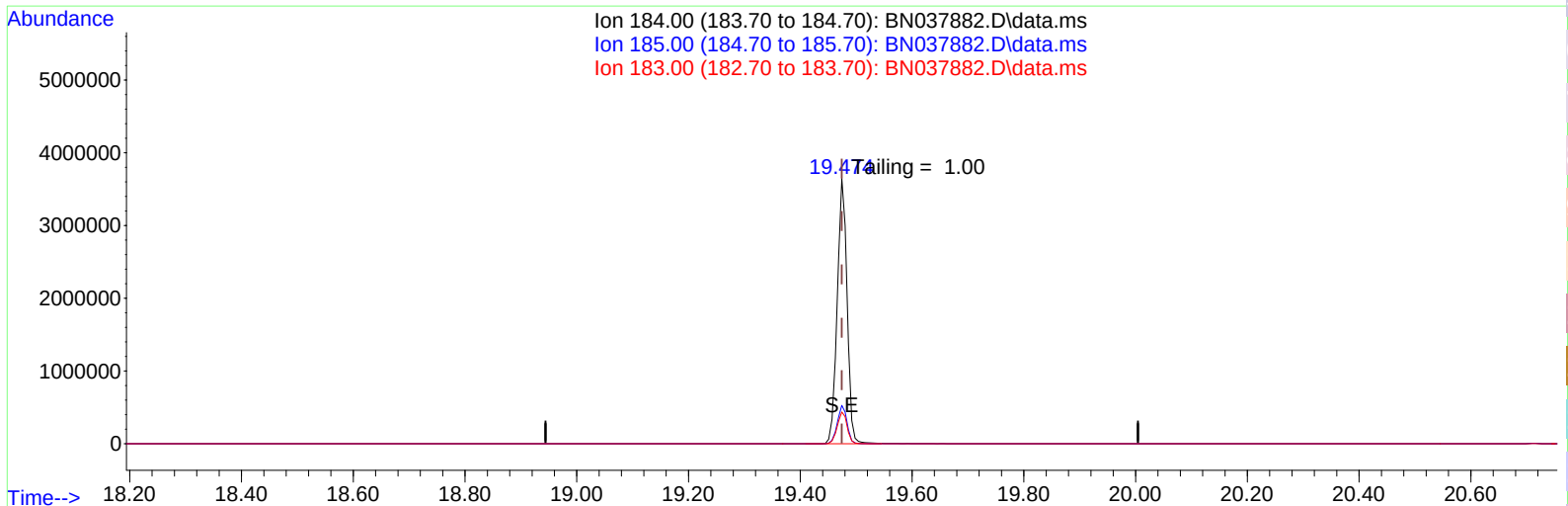
response 718482

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.80
264.00	61.60	62.36
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037882.D
Acq On : 25 Sep 2025 10:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 25 13:12:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037882.D\data.ms

(77) Benzidine

19.474min (+ 0.000) 0.00 ng

response 4502688

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.03
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/25/2025	BNA_N	<u>BN037882.D</u>
Compound Name	Response	Retention Time
DDT	1891737	20.716
DDD	7741	20.327
DDE	257	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7998	1899735	0.42

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BL	SDG No.:	Q3015
Lab Sample ID:	PB169712BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037872.D	1	09/16/25 09:39	09/24/25 10:32	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.040	U	0.040	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.040	U	0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
83-32-9	Acenaphthene	0.040	U	0.040	0.10	ug/L
86-73-7	Fluorene	0.040	U	0.040	0.10	ug/L
85-01-8	Phenanthrene	0.030	U	0.030	0.10	ug/L
120-12-7	Anthracene	0.040	U	0.040	0.10	ug/L
206-44-0	Fluoranthene	0.030	U	0.030	0.10	ug/L
129-00-0	Pyrene	0.030	U	0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.040	U	0.040	0.10	ug/L
218-01-9	Chrysene	0.040	U	0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.040	U	0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.050	U	0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.040	U	0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U	0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.050	U	0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		20 - 139	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		54 - 157	89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		27 - 154	95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 - 155	97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		54 - 175	101%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6890	7.826			
1146-65-2	Naphthalene-d8	18300	10.626			
15067-26-2	Acenaphthene-d10	8440	14.473			
1517-22-2	Phenanthrene-d10	16600	17.223			
1719-03-5	Chrysene-d12	13500	21.402			

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BL	SDG No.:	Q3015
Lab Sample ID:	PB169712BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037872.D	1	09/16/25 09:39	09/24/25 10:32	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	12200	23.733			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

Quant Time: Sep 24 11:11:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	6892	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18348	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8435	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16554	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13474	0.400	ng	0.00
35) Perylene-d12	23.733	264	12150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5578	0.355	ng	0.00
5) Phenol-d6	6.981	99	7183	0.348	ng	0.00
8) Nitrobenzene-d5	8.971	82	5321	0.380	ng	0.00
11) 2-Methylnaphthalene-d10	12.223	152	8254	0.324	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	405	0.127	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	13344	0.386	ng	0.01
27) Fluoranthene-d10	19.257	212	14829	0.356	ng	0.00
31) Terphenyl-d14	19.852	244	10869	0.405	ng	0.00

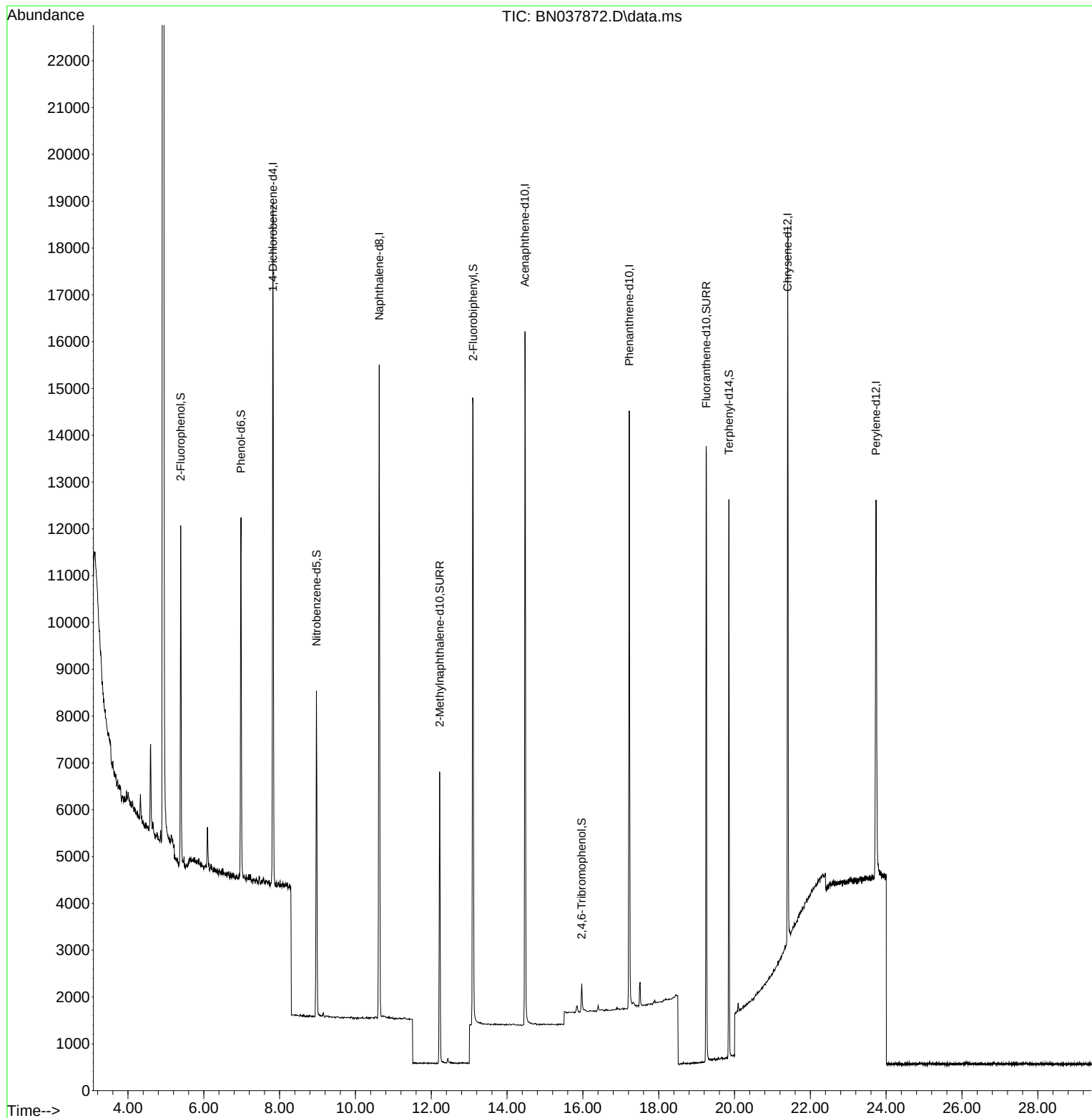
Target Compounds	Qvalue
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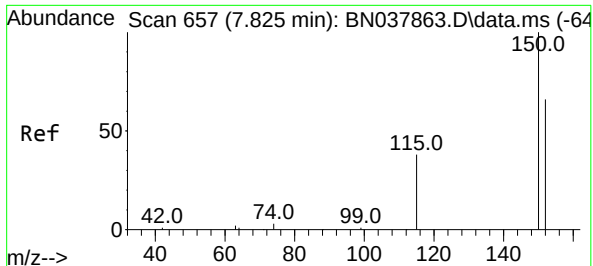
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092425\
Data File : BN037872.D
Acq On : 24 Sep 2025 10:32
Operator : RC/JU
Sample : PB169712BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BL

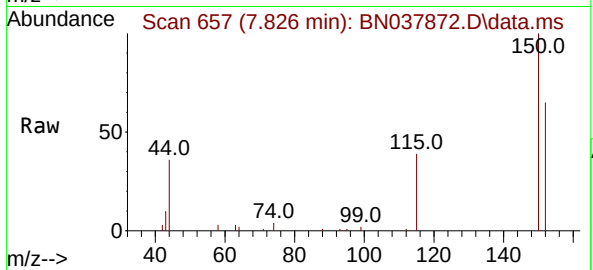
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



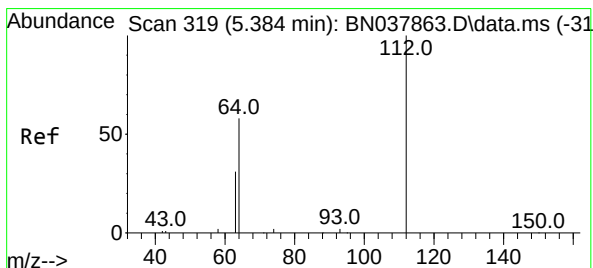
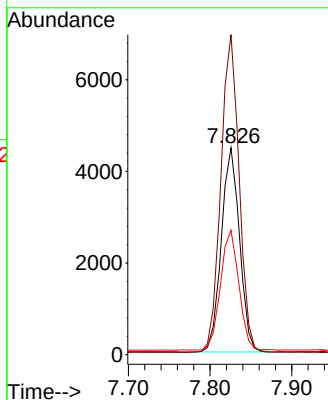
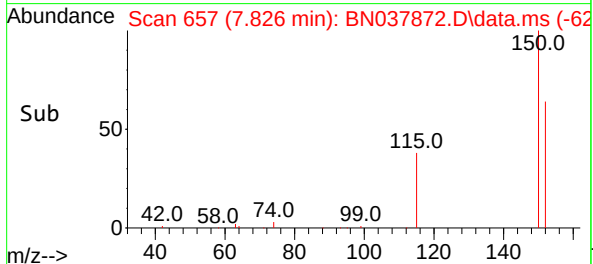


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

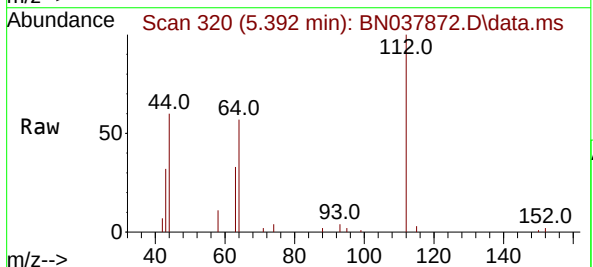
Instrument :
BNA_N
ClientSampleId :
PB169712BL



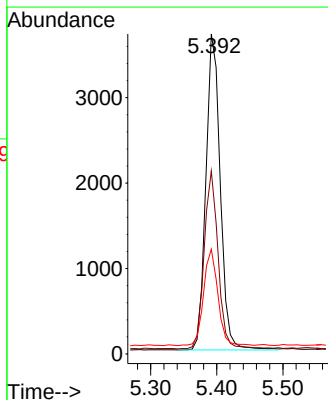
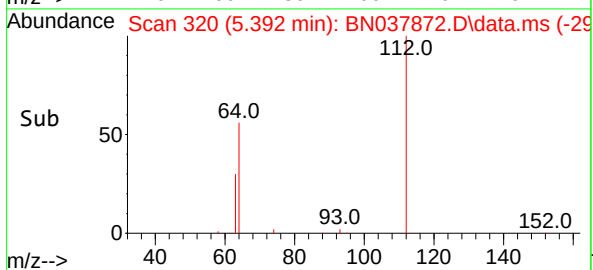
Tgt Ion:152 Resp: 6892
Ion Ratio Lower Upper
152 100
150 154.7 121.0 181.4
115 60.1 47.4 71.0

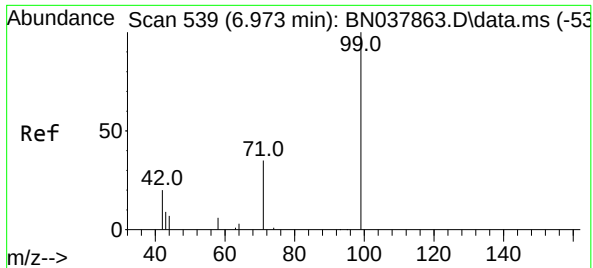


#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32



Tgt Ion:112 Resp: 5578
Ion Ratio Lower Upper
112 100
64 55.1 44.6 66.8
63 30.2 24.9 37.3

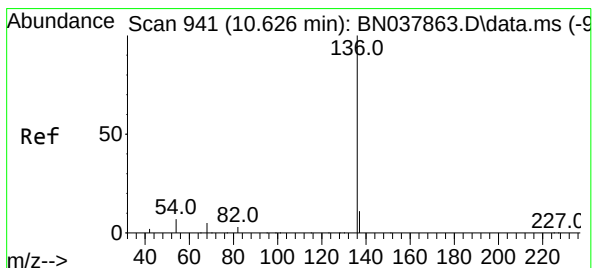
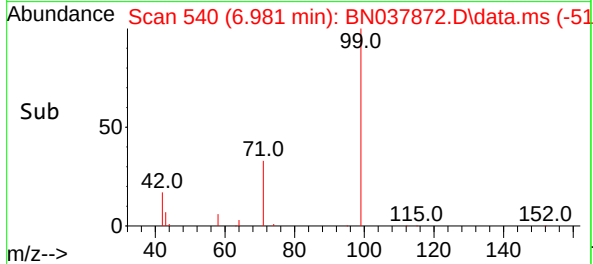
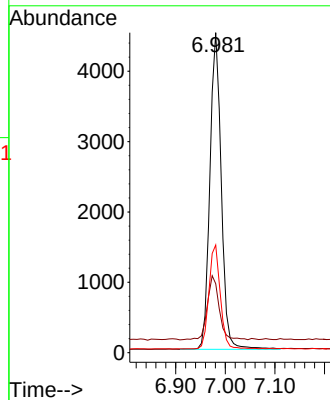
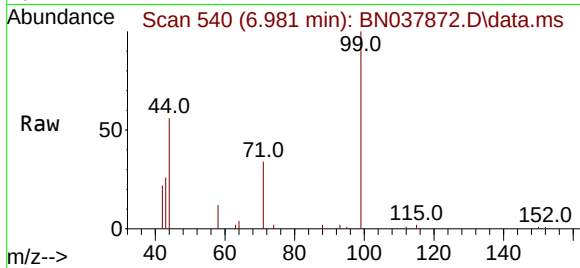




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.981 min Scan# 540
Delta R.T. 0.007 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

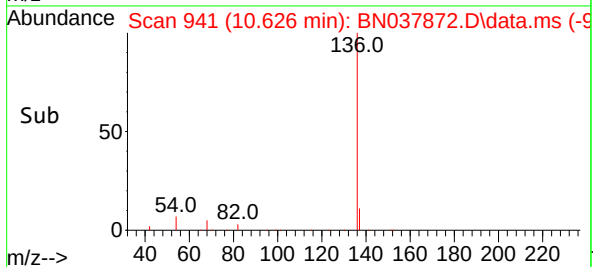
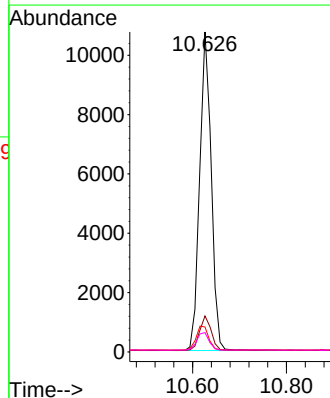
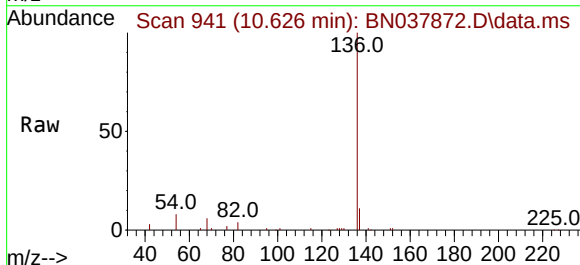
Instrument :
BNA_N
ClientSampleId :
PB169712BL

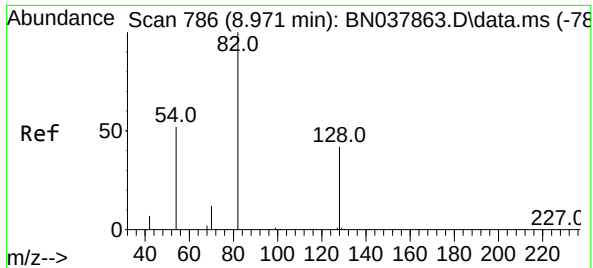
Tgt Ion:	99	Resp:	7183
Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.2	25.8
71	33.2	27.3	40.9



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:	136	Resp:	18348
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.8	5.8	8.8
68	6.1	4.3	6.5

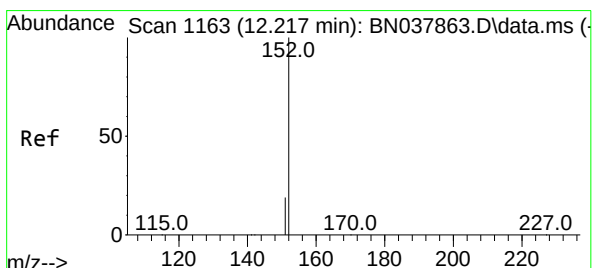
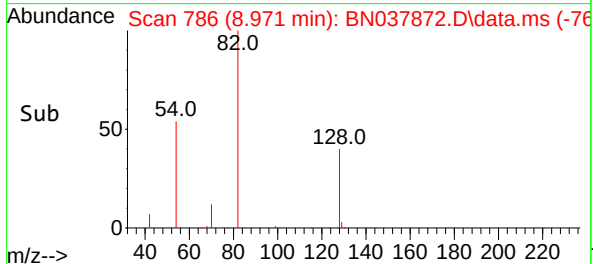
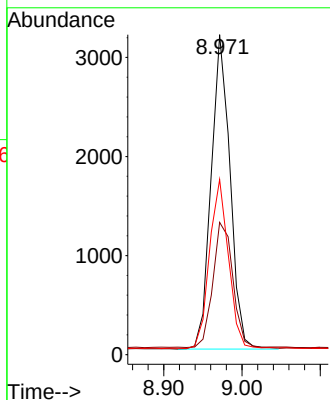
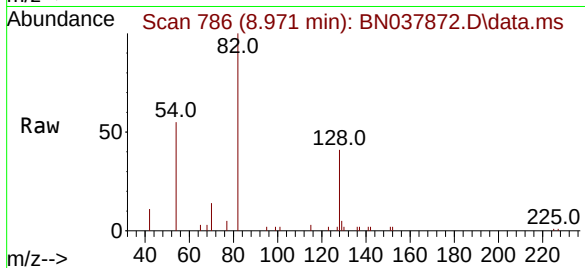




#8
Nitrobenzene-d5
Concen: 0.380 ng
RT: 8.971 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

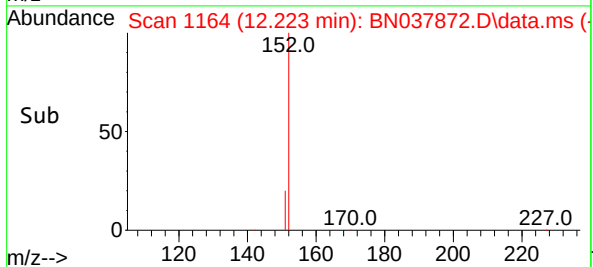
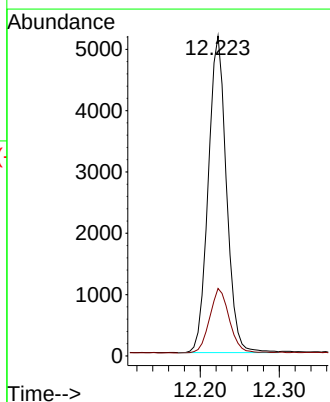
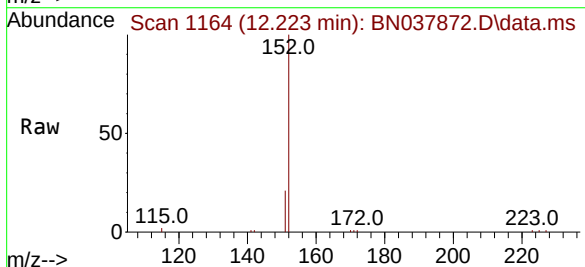
Instrument :
BNA_N
ClientSampleId :
PB169712BL

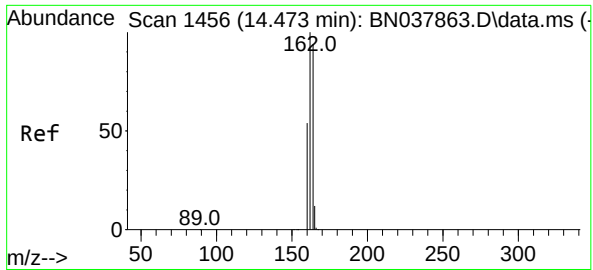
Tgt Ion:	82	Resp:	5321
Ion	Ratio	Lower	Upper
82	100		
128	41.3	34.8	52.2
54	54.8	42.2	63.2



#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.223 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion:	152	Resp:	8254
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.4	26.2

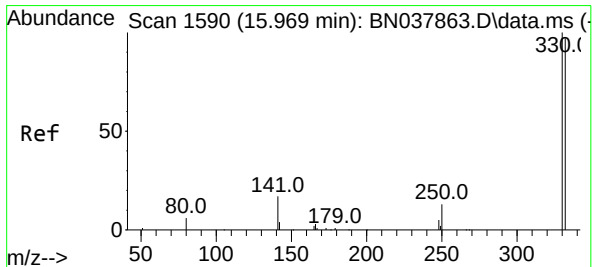
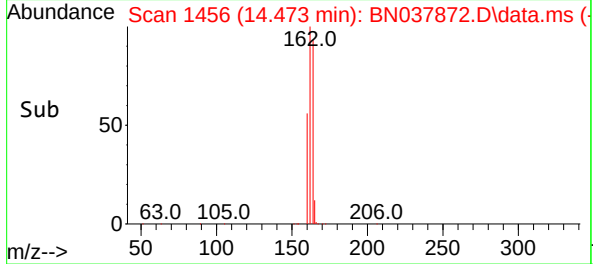
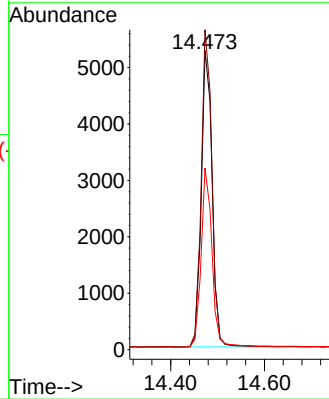
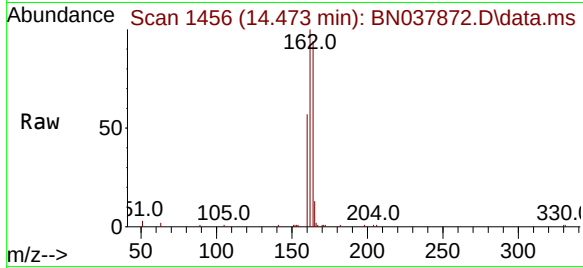




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

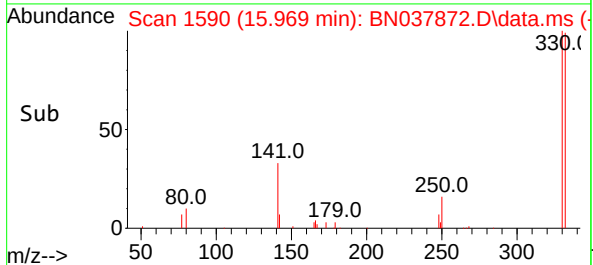
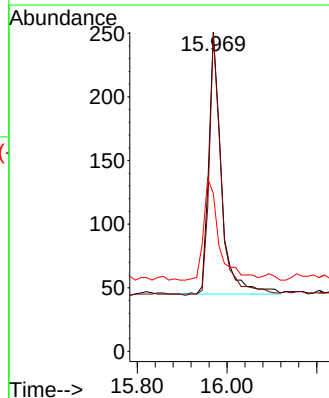
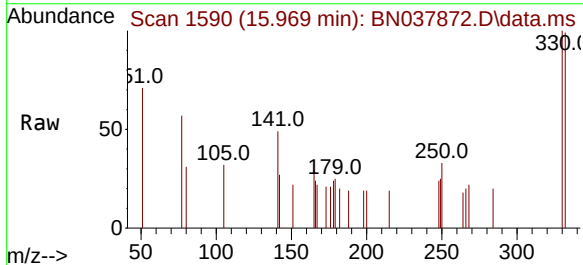
Instrument :
BNA_N
ClientSampleId :
PB169712BL

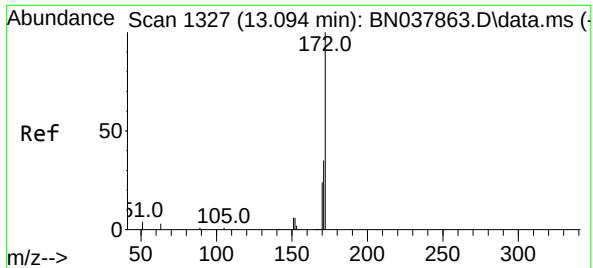
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.8	127.2
160	60.7	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.127 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.2	115.8
141	46.4	37.2	55.8

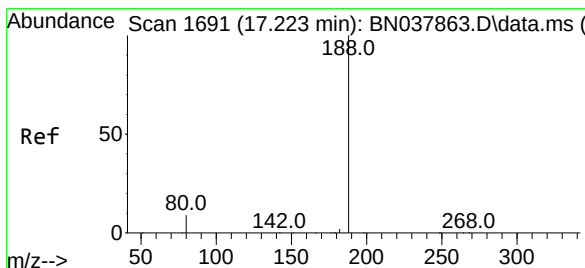
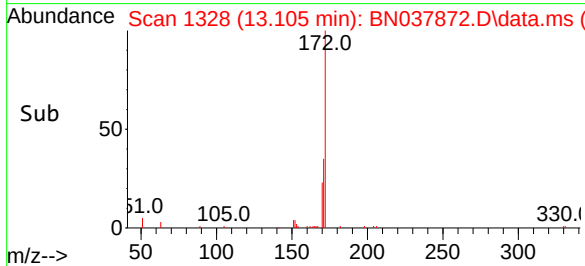
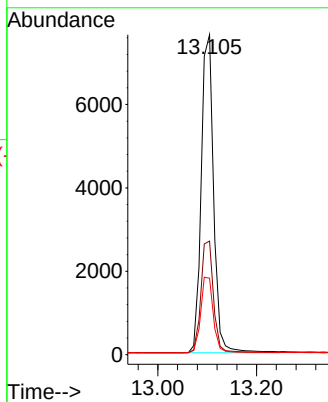
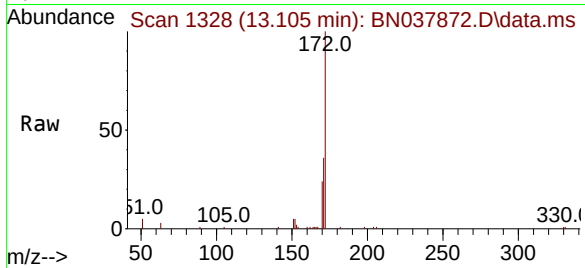




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.105 min Scan# 1327
Delta R.T. 0.011 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

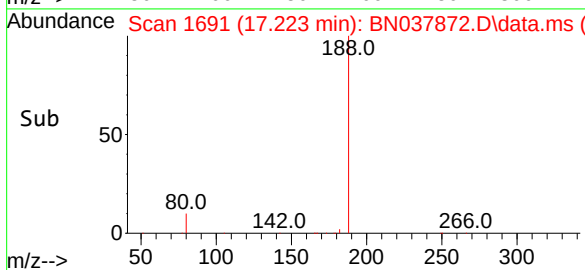
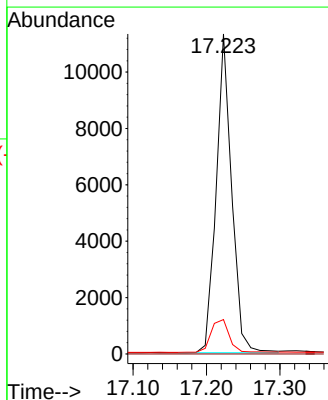
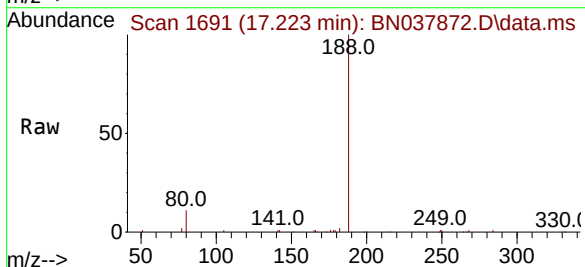
Instrument :
BNA_N
ClientSampleId :
PB169712BL

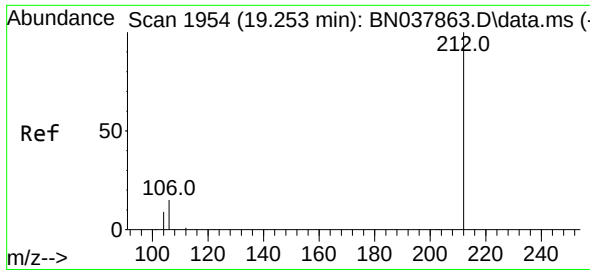
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.9	19.7	29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.7	7.6	11.4





#27

Fluoranthene-d10

Concen: 0.356 ng

RT: 19.257 min Scan# 1955

Delta R.T. 0.005 min

Lab File: BN037872.D

Acq: 24 Sep 2025 10:32

Instrument :

BNA_N

ClientSampleId :

PB169712BL

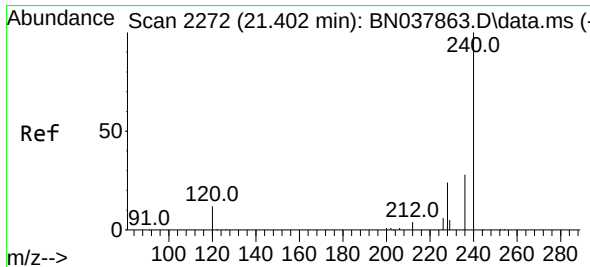
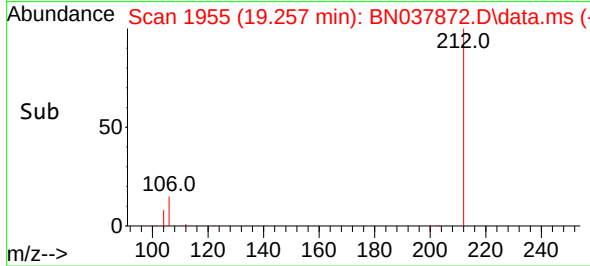
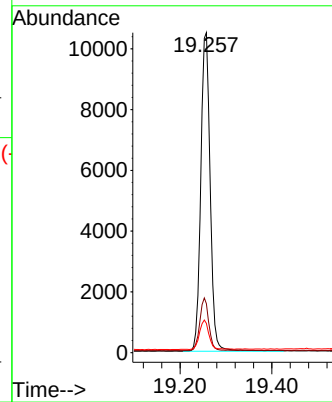
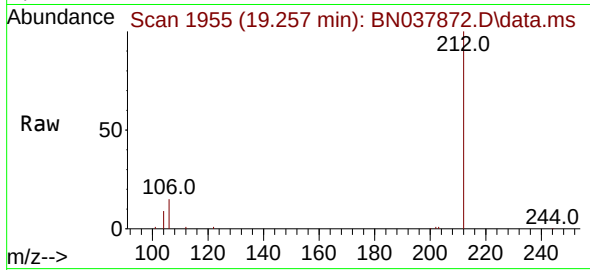
Tgt Ion:212 Resp: 14829

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.3 7.4 11.0



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN037872.D

Acq: 24 Sep 2025 10:32

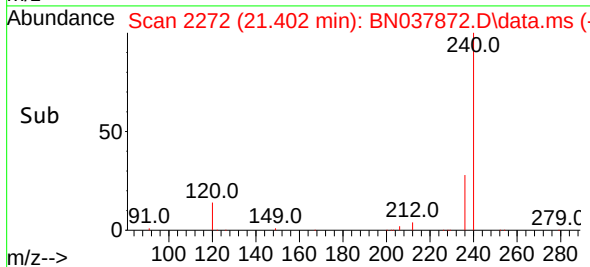
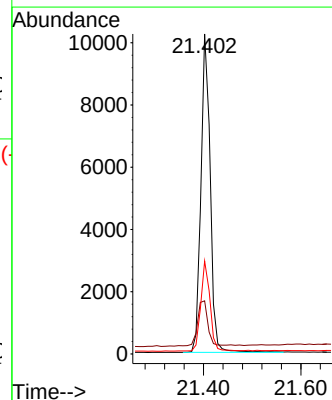
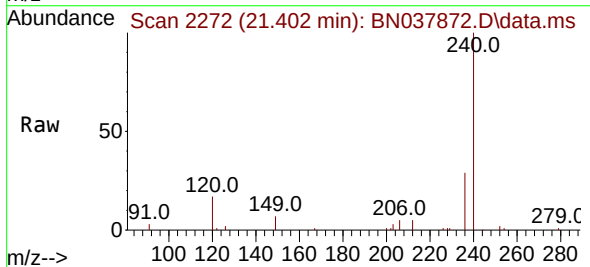
Tgt Ion:240 Resp: 13474

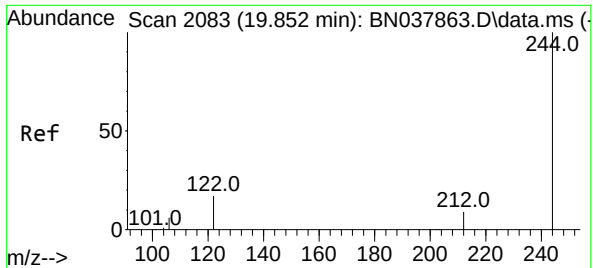
Ion Ratio Lower Upper

240 100

120 16.6 11.4 17.2

236 29.1 23.0 34.6

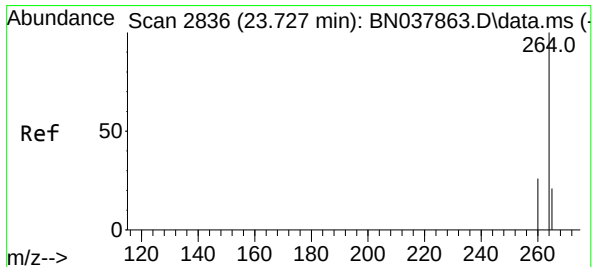
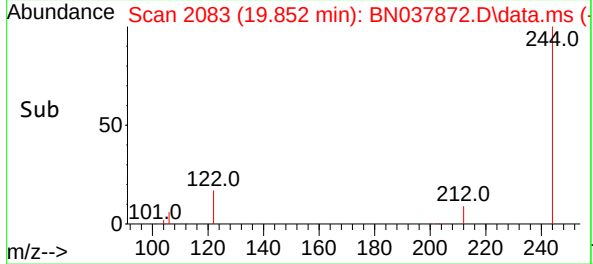
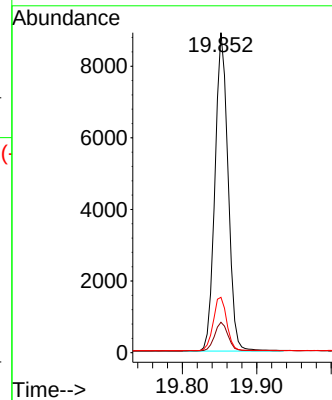
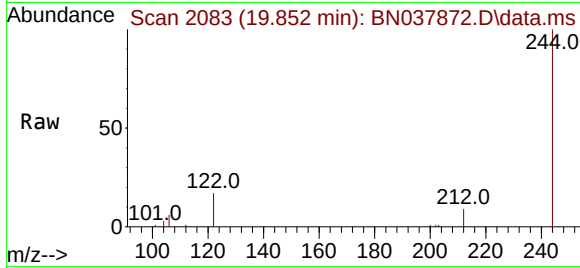




#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

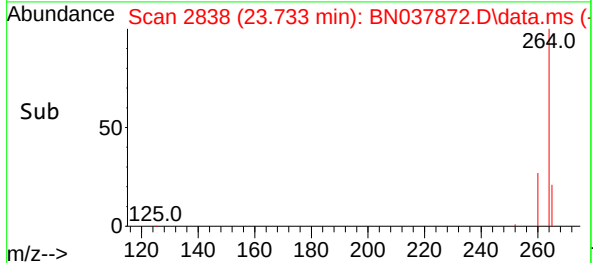
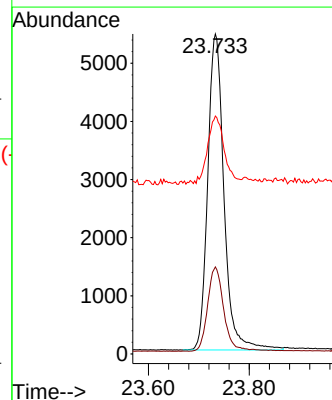
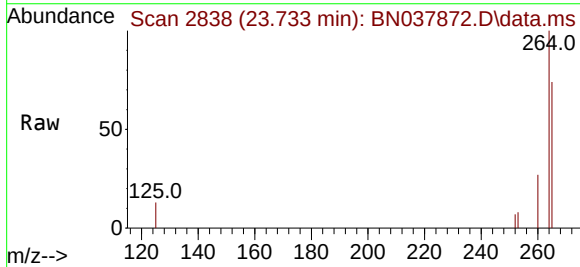
Instrument :
BNA_N
ClientSampleId :
PB169712BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.3	13.9	20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2838
Delta R.T. 0.006 min
Lab File: BN037872.D
Acq: 24 Sep 2025 10:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.5	32.3
265	74.3	53.8	80.6



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BS	SDG No.:	Q3015
Lab Sample ID:	PB169712BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037885.D	1	09/16/25 09:39	09/25/25 12:44	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.36		0.040	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.31		0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.39		0.040	0.10	ug/L
83-32-9	Acenaphthene	0.35		0.040	0.10	ug/L
86-73-7	Fluorene	0.36		0.040	0.10	ug/L
85-01-8	Phenanthrene	0.36		0.030	0.10	ug/L
120-12-7	Anthracene	0.37		0.040	0.10	ug/L
206-44-0	Fluoranthene	0.34		0.030	0.10	ug/L
129-00-0	Pyrene	0.38		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.38		0.040	0.10	ug/L
218-01-9	Chrysene	0.39		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.37		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.37		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.37		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.36		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		20 - 139	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		54 - 157	86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		27 - 154	95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 - 155	98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		54 - 175	100%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7080	7.818			
1146-65-2	Naphthalene-d8	19600	10.626			
15067-26-2	Acenaphthene-d10	9660	14.473			
1517-22-2	Phenanthrene-d10	19100	17.223			
1719-03-5	Chrysene-d12	15500	21.402			

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BS	SDG No.:	Q3015
Lab Sample ID:	PB169712BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037885.D	1	09/16/25 09:39	09/25/25 12:44	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	13100	23.733			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
 Data File : BN037885.D
 Acq On : 25 Sep 2025 12:44
 Operator : RC/JU
 Sample : PB169712BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169712BS

Quant Time: Sep 25 13:29:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

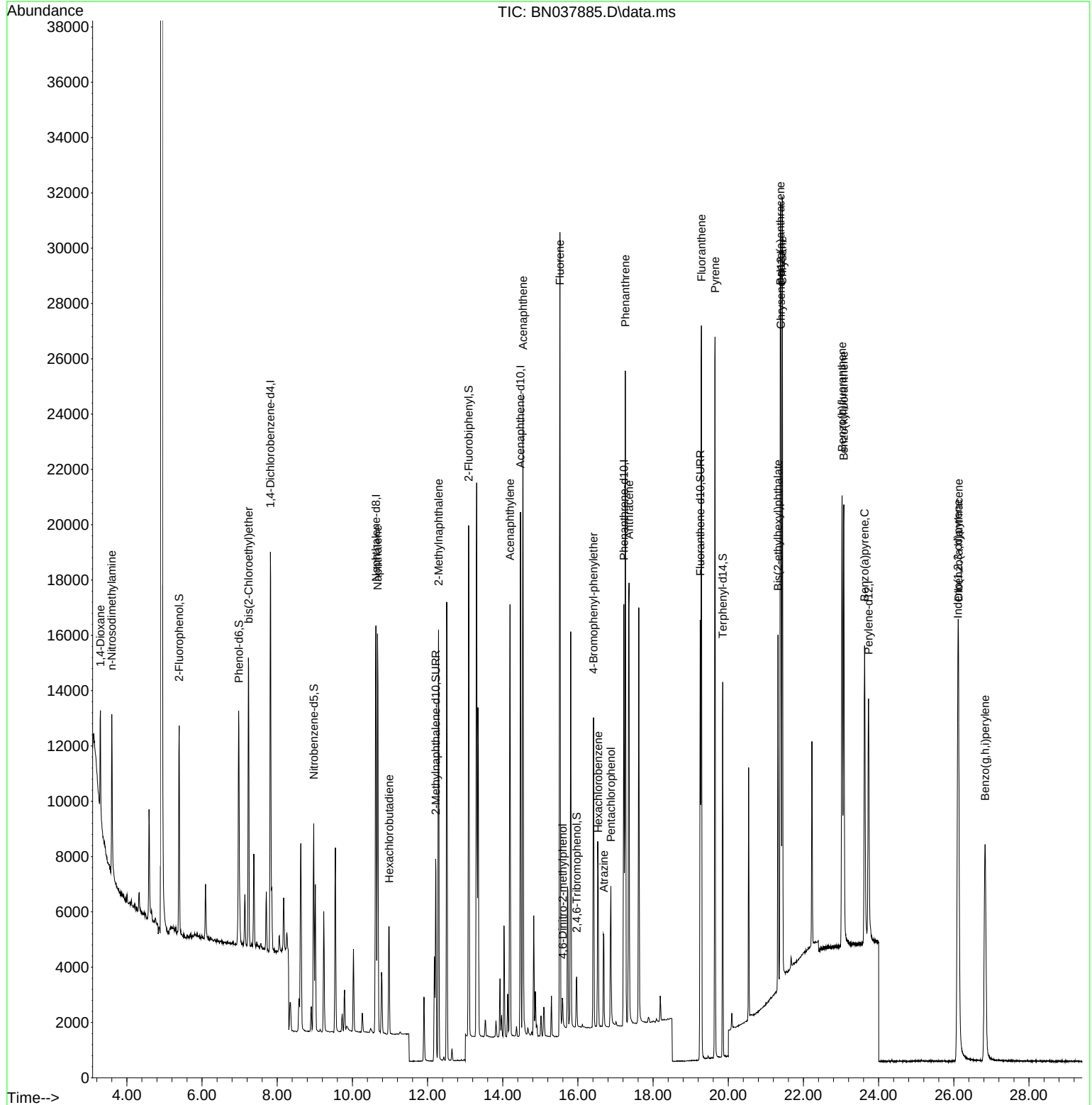
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	7082	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	19552	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9660	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	19122	0.400	ng	0.00
29) Chrysene-d12	21.402	240	15460	0.400	ng	0.00
35) Perylene-d12	23.733	264	13073	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5925	0.367	ng	0.00
5) Phenol-d6	6.981	99	7709	0.363	ng	0.00
8) Nitrobenzene-d5	8.971	82	5697	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	9582	0.353	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1148	0.313	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	15472	0.391	ng	0.00
27) Fluoranthene-d10	19.253	212	16458	0.342	ng	0.00
31) Terphenyl-d14	19.852	244	12280	0.399	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.297	88	2267	0.315	ng	# 63
3) n-Nitrosodimethylamine	3.601	42	3436	0.359	ng	# 91
6) bis(2-Chloroethyl)ether	7.241	93	7371	0.374	ng	99
9) Naphthalene	10.669	128	19377	0.360	ng	100
10) Hexachlorobutadiene	10.979	225	3383	0.368	ng	# 98
12) 2-Methylnaphthalene	12.293	142	11047	0.314	ng	99
16) Acenaphthylene	14.195	152	16873	0.385	ng	100
17) Acenaphthene	14.537	154	10998	0.352	ng	99
18) Fluorene	15.523	166	13577	0.359	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	798	0.392	ng	97
21) 4-Bromophenyl-phenylether	16.416	248	4261	0.342	ng	100
22) Hexachlorobenzene	16.540	284	5565	0.368	ng	100
23) Atrazine	16.689	200	3072	0.324	ng	98
24) Pentachlorophenol	16.876	266	2586	0.499	ng	94
25) Phenanthrene	17.260	178	22894	0.364	ng	99
26) Anthracene	17.360	178	19907	0.365	ng	100
28) Fluoranthene	19.285	202	23355	0.337	ng	99
30) Pyrene	19.647	202	23008	0.377	ng	100
32) Benzo(a)anthracene	21.384	228	20382	0.377	ng	99
33) Chrysene	21.438	228	22553	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	6759	0.316	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	21870	0.366	ng	99
37) Benzo(b)fluoranthene	23.028	252	21060	0.374	ng	99
38) Benzo(k)fluoranthene	23.072	252	21159	0.373	ng	99
39) Benzo(a)pyrene	23.628	252	17352	0.389	ng	99
40) Dibenzo(a,h)anthracene	26.124	278	16856	0.361	ng	99
41) Benzo(g,h,i)perylene	26.832	276	17953	0.366	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
Data File : BN037885.D
Acq On : 25 Sep 2025 12:44
Operator : RC/JU
Sample : PB169712BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

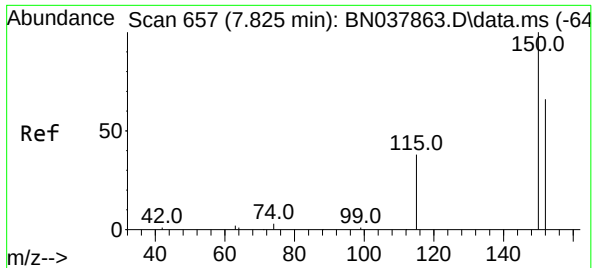
Instrument :
BNA_N
ClientSampleId :
PB169712BS

Quant Time: Sep 25 13:29:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



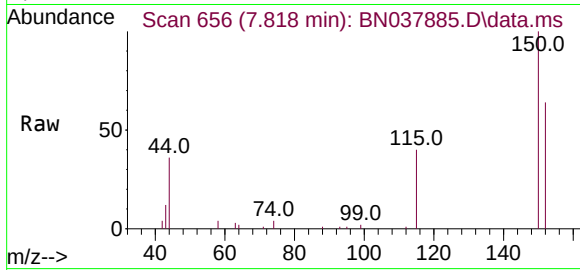
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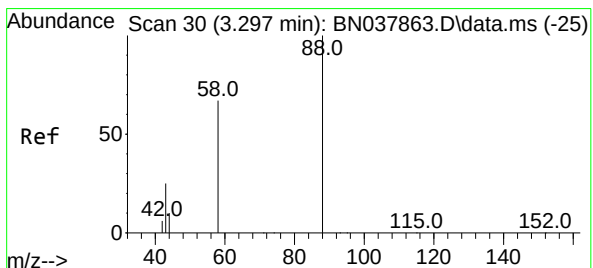
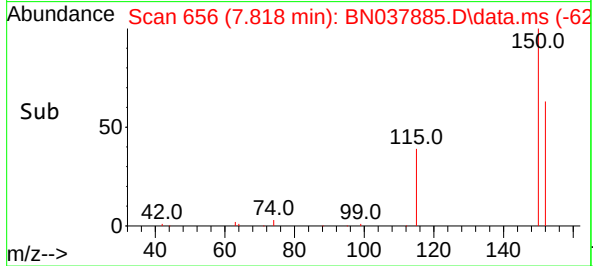
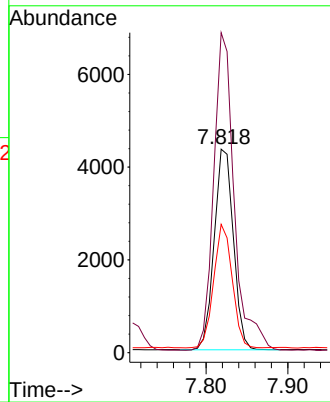


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

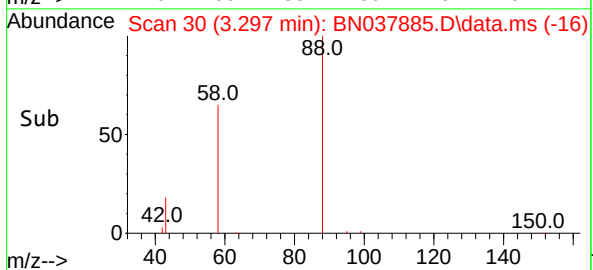
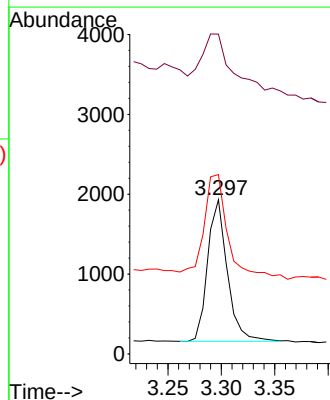
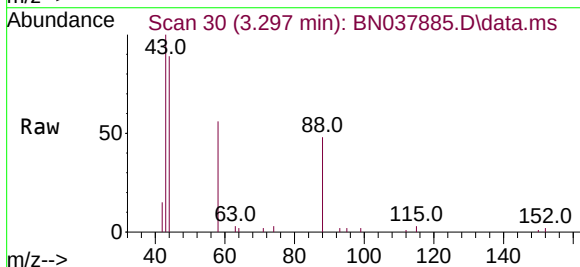


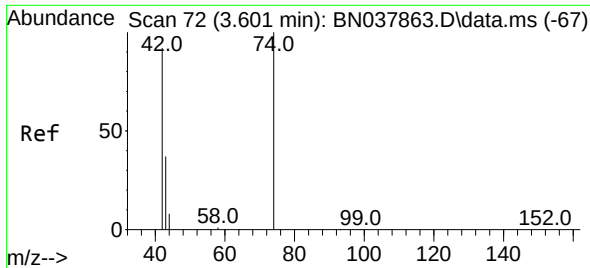
Tgt Ion:152 Resp: 7082
Ion Ratio Lower Upper
152 100
150 157.3 121.0 181.4
115 63.1 47.4 71.0



#2
1,4-Dioxane
Concen: 0.315 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 88 Resp: 2267
Ion Ratio Lower Upper
88 100
43 72.5 26.6 39.8#
58 92.1 58.9 88.3#

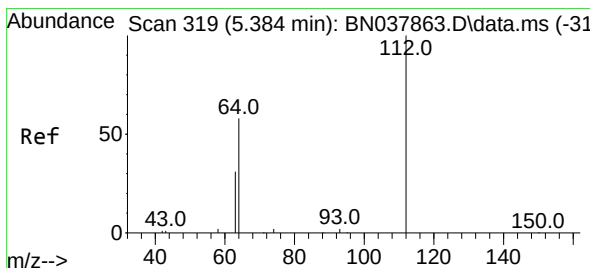
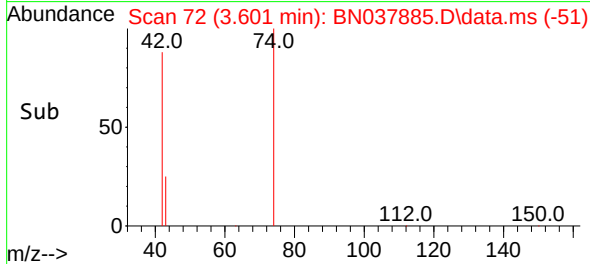
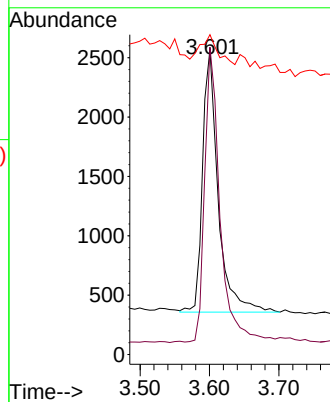
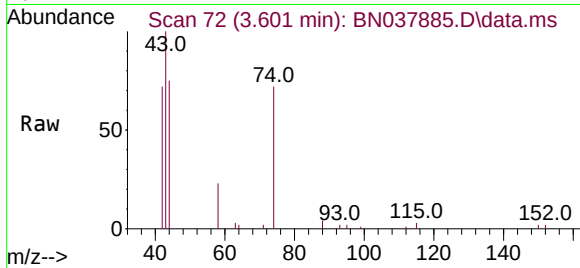




#3
n-Nitrosodimethylamine
Concen: 0.359 ng
RT: 3.601 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

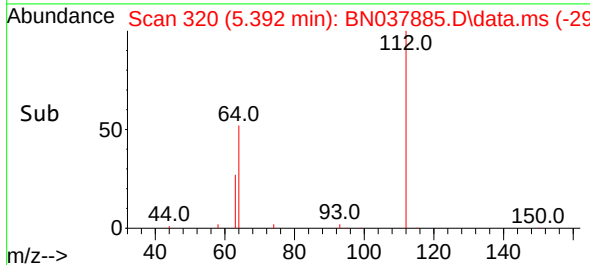
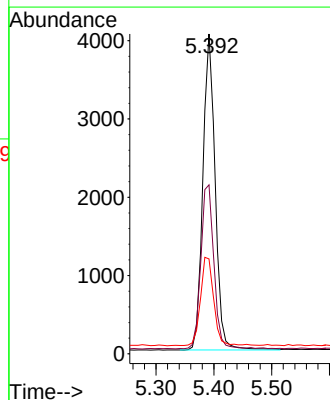
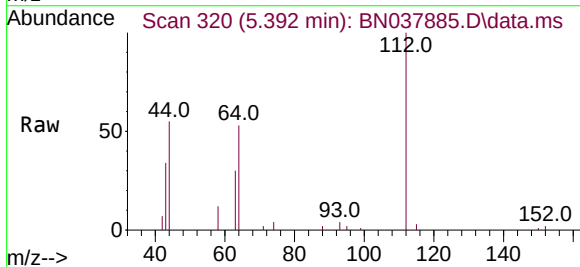
Instrument :
BNA_N
ClientSampleId :
PB169712BS

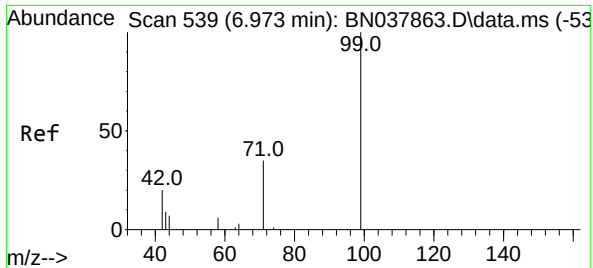
Tgt Ion: 42 Resp: 3436
Ion Ratio Lower Upper
42 100
74 111.8 93.4 140.0
44 12.7 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion: 112 Resp: 5925
Ion Ratio Lower Upper
112 100
64 55.0 44.6 66.8
63 29.8 24.9 37.3

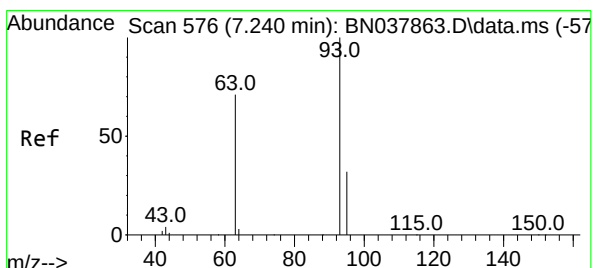
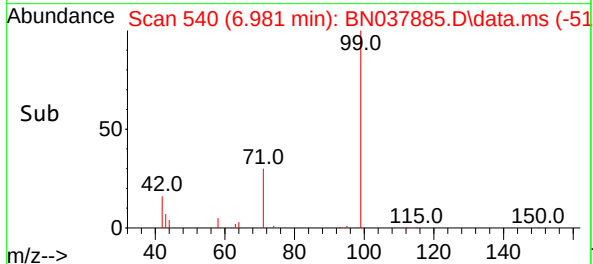
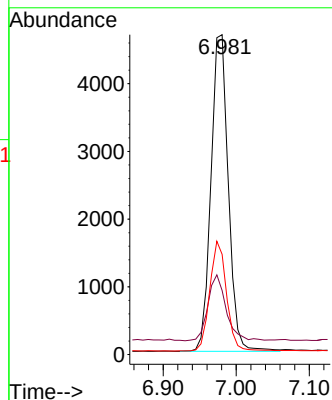
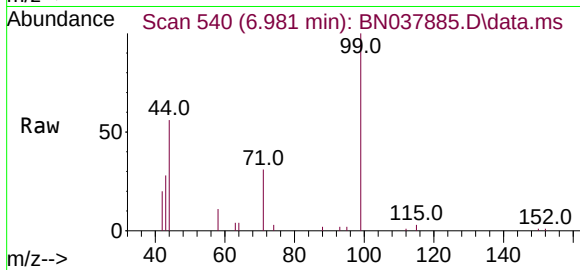




#5
Phenol-d6
Concen: 0.363 ng
RT: 6.981 min Scan# 540
Delta R.T. 0.007 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

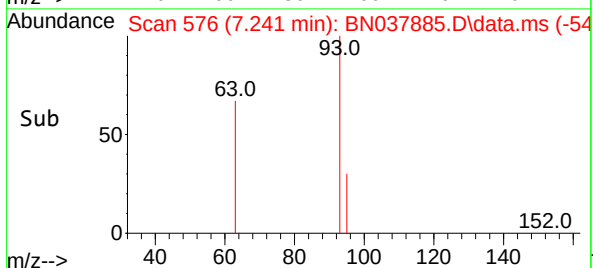
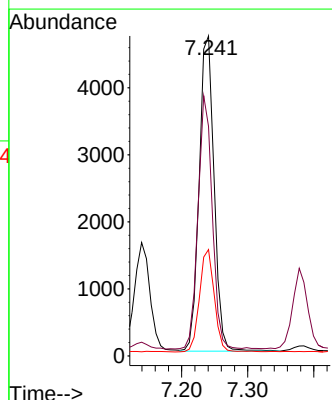
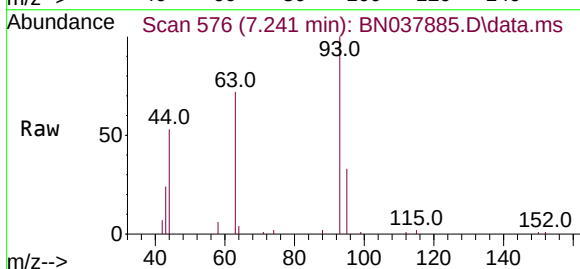
Instrument :
BNA_N
ClientSampleId :
PB169712BS

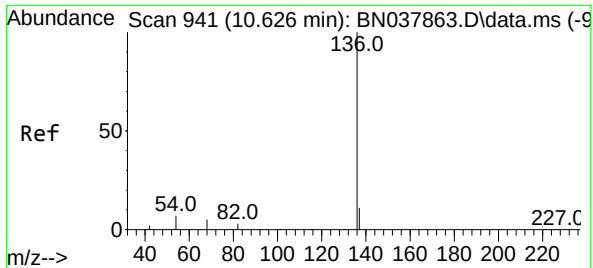
Tgt Ion:	99	Resp:	7709
Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.2	25.8
71	33.7	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	93	Resp:	7371
Ion	Ratio	Lower	Upper
93	100		
63	76.5	60.1	90.1
95	32.2	25.4	38.2

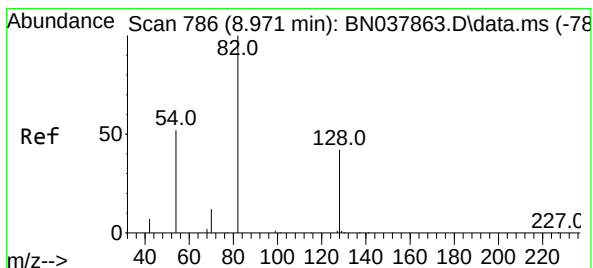
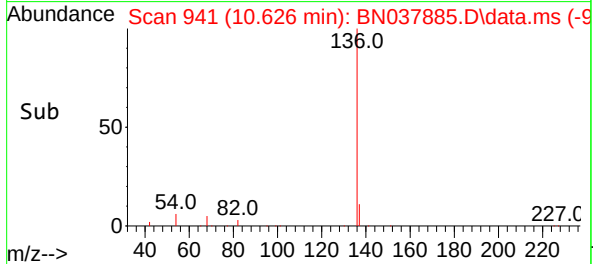
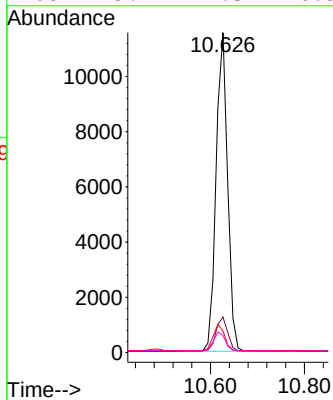
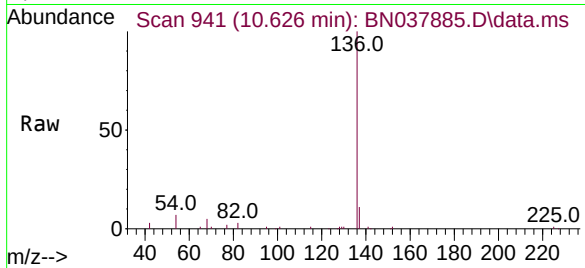




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

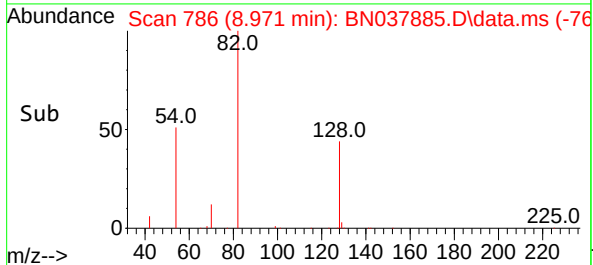
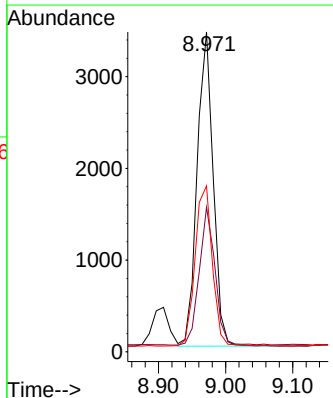
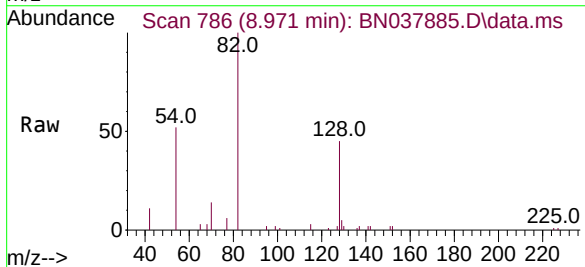
Instrument :
BNA_N
ClientSampleId :
PB169712BS

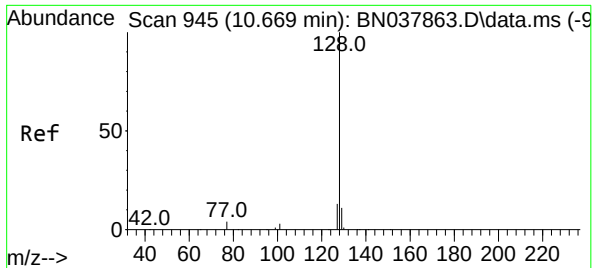
Tgt Ion:	136	Resp:	19552
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	6.7	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	82	Resp:	5697
Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.8	52.2
54	51.9	42.2	63.2

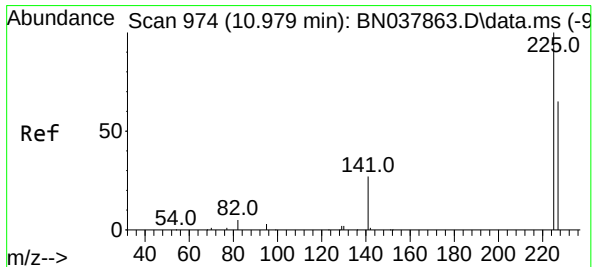
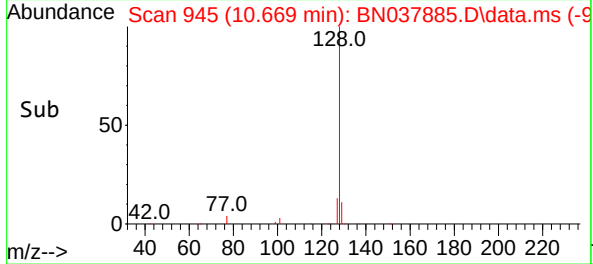
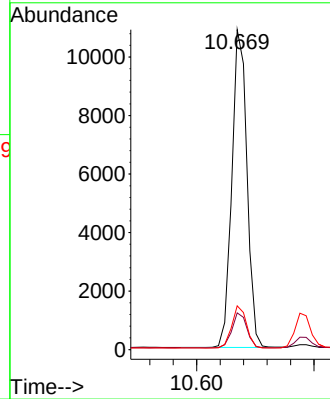
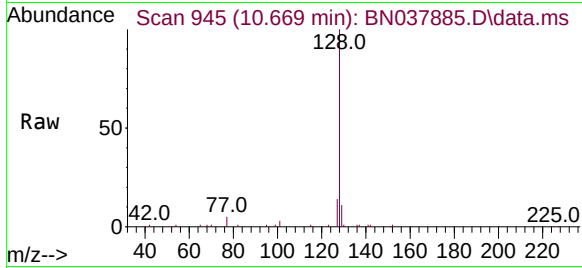




#9
Naphthalene
Concen: 0.360 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

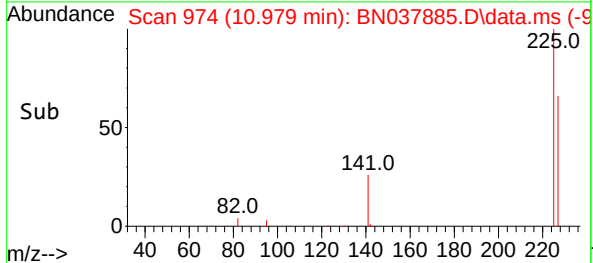
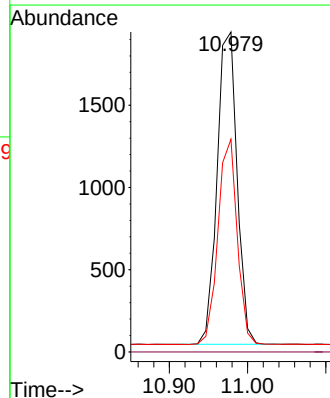
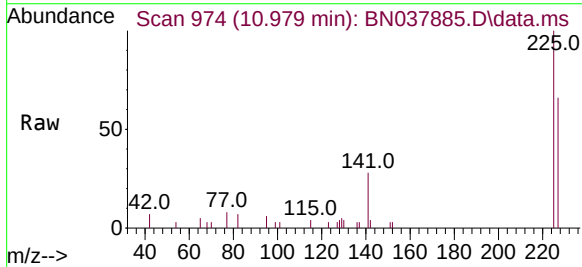
Instrument :
BNA_N
ClientSampleId :
PB169712BS

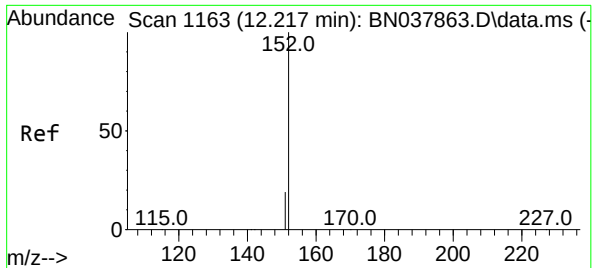
Tgt Ion:	128	Resp:	19377
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.368 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	225	Resp:	3383
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.4	77.2

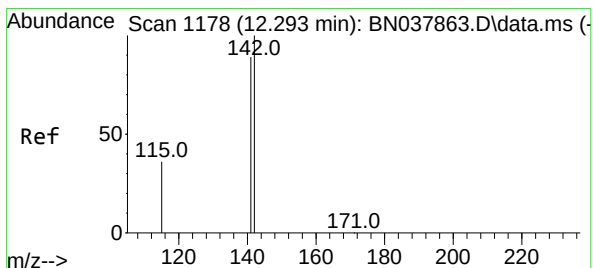
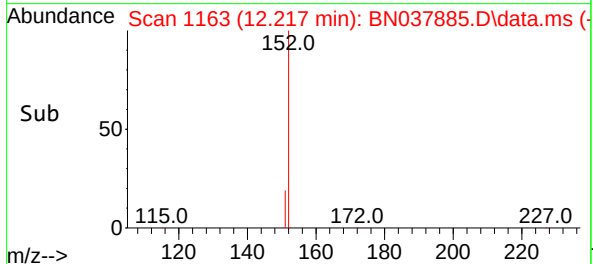
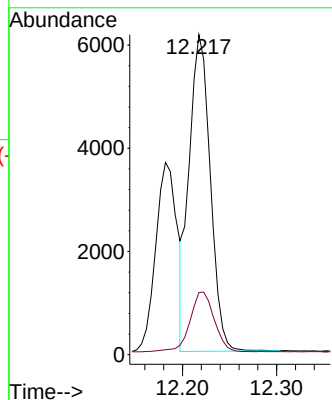
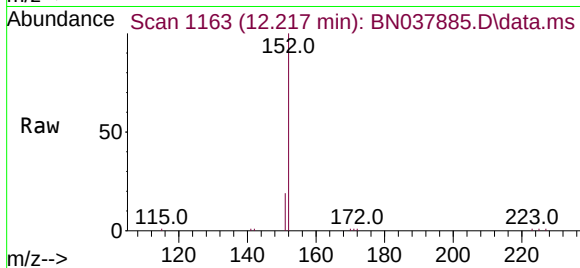




#11
2-Methylnaphthalene-d10
Concen: 0.353 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

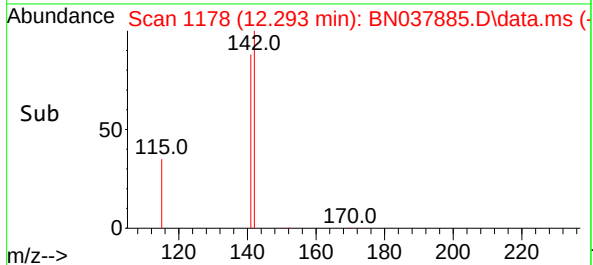
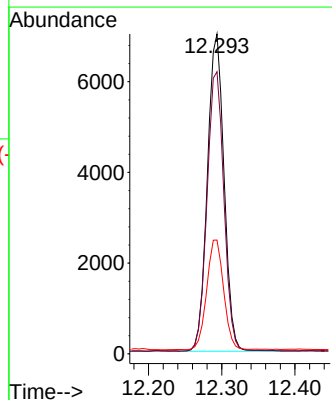
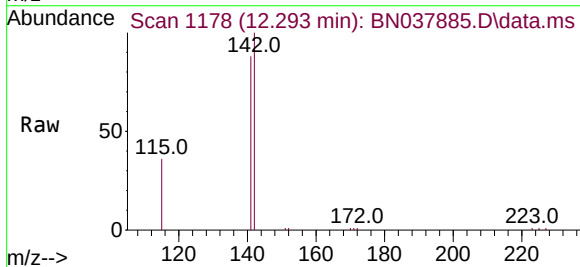
Instrument :
BNA_N
ClientSampleId :
PB169712BS

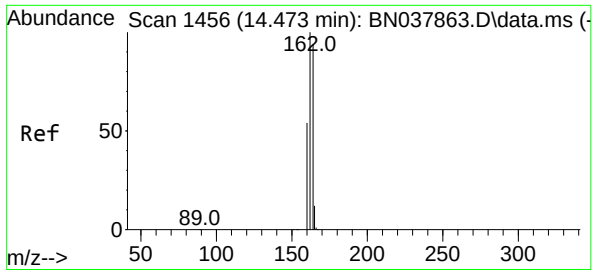
Tgt Ion:152 Resp: 9582
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.314 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:142 Resp: 11047
Ion Ratio Lower Upper
142 100
141 88.2 71.2 106.8
115 35.6 29.7 44.5

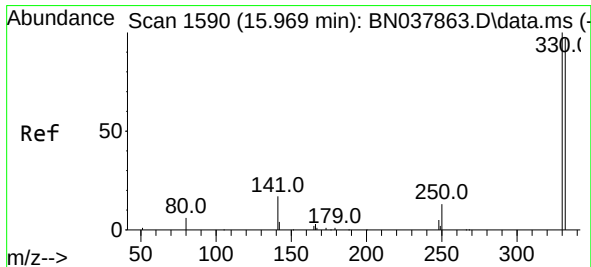
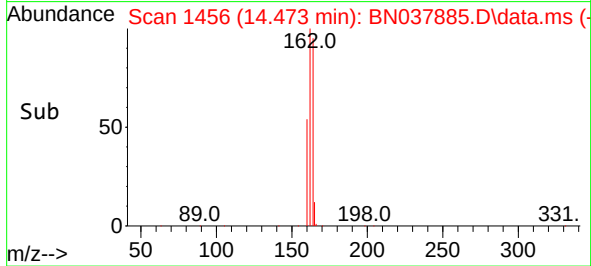
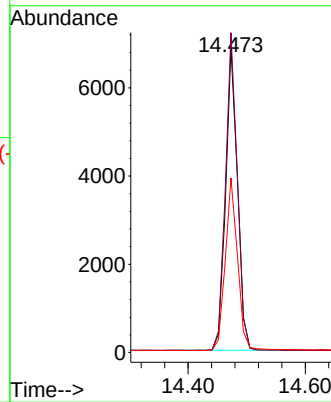
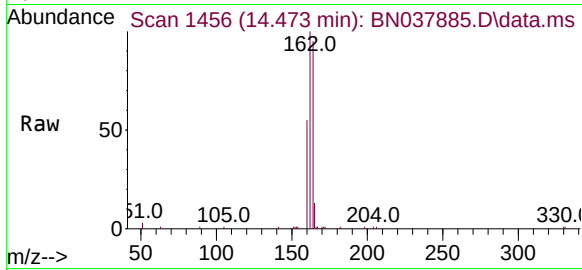




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

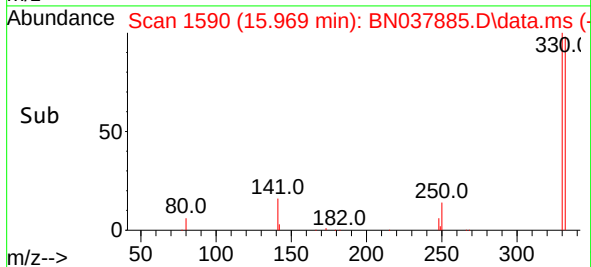
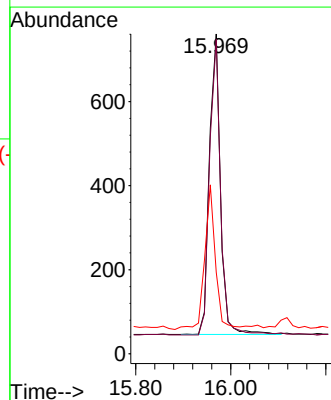
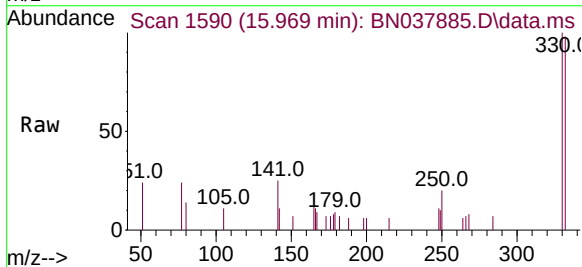
Instrument :
BNA_N
ClientSampleId :
PB169712BS

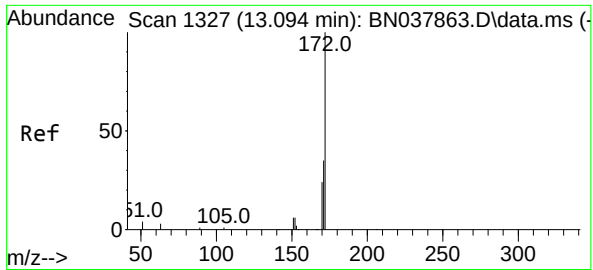
Tgt Ion:	164	Resp:	9660
Ion	Ratio	Lower	Upper
164	100		
162	104.9	84.8	127.2
160	57.3	46.1	69.1



#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	330	Resp:	1148
Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.2	115.8
141	46.7	37.2	55.8

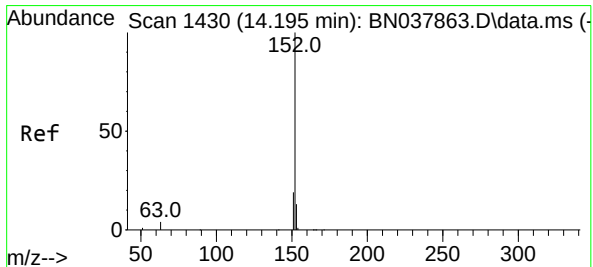
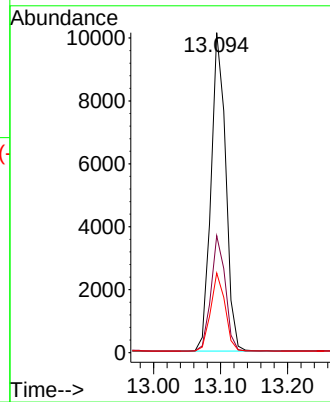
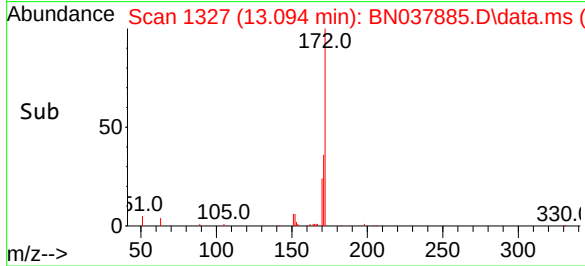
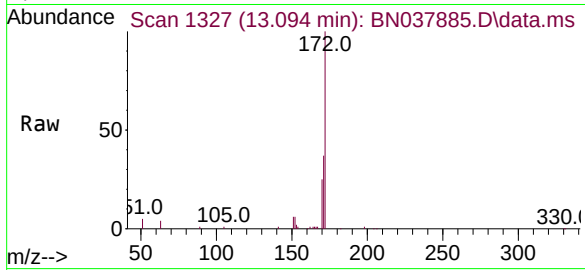




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

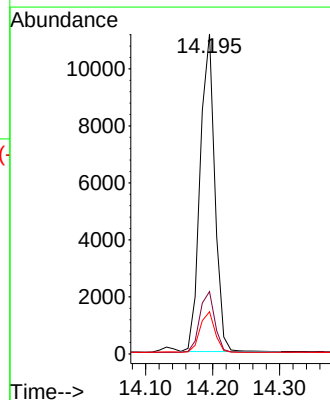
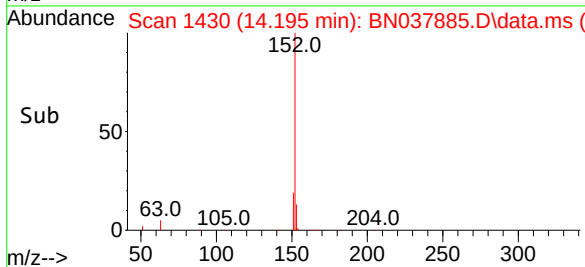
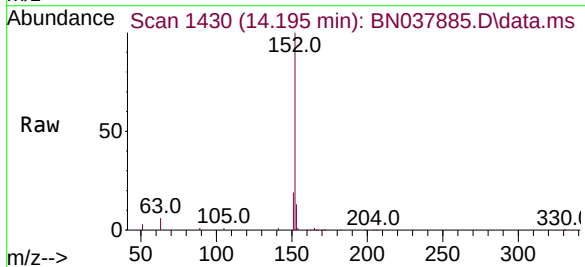
Instrument :
BNA_N
ClientSampleId :
PB169712BS

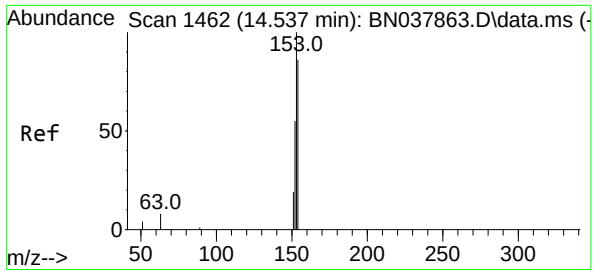
Tgt Ion:	172	Resp:	15472
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.6	43.0
170	24.9	19.7	29.5



#16
Acenaphthylene
Concen: 0.385 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:	152	Resp:	16873
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.8	23.8
153	12.9	10.5	15.7

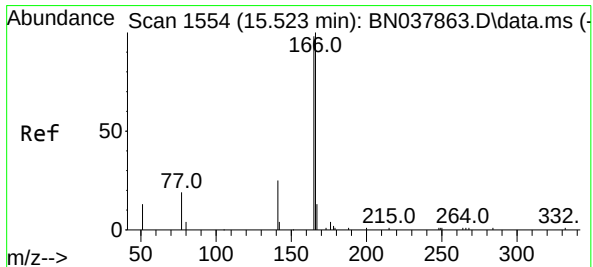
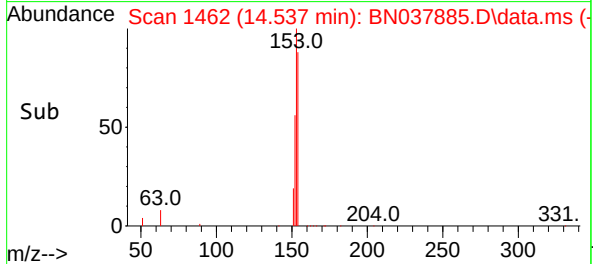
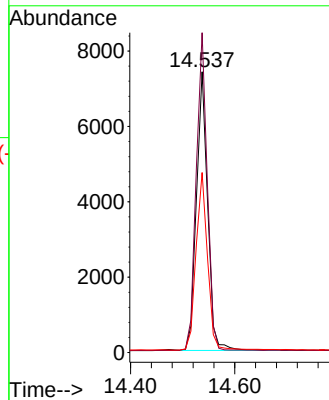
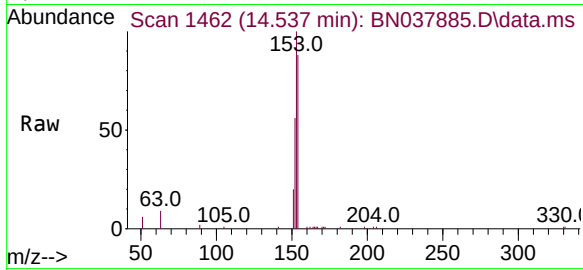




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

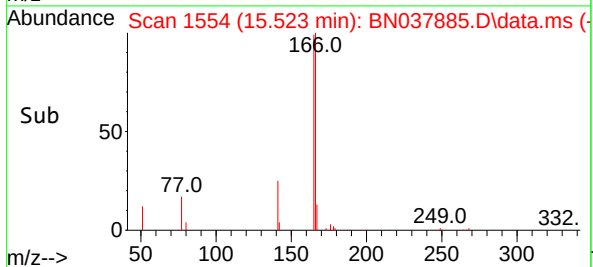
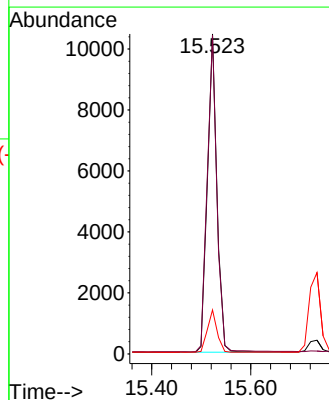
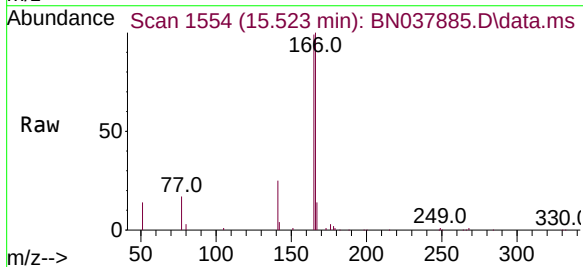
Instrument :
BNA_N
ClientSampleId :
PB169712BS

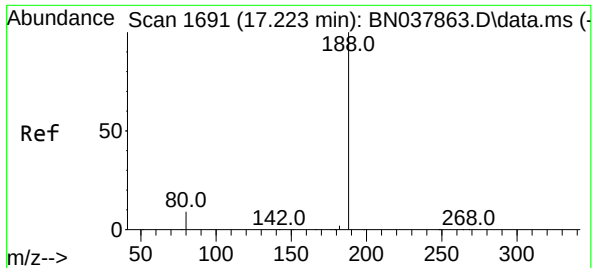
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.5	135.7
152	65.5	51.8	77.8



#18
Fluorene
Concen: 0.359 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.9	79.0	118.4
167	13.3	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

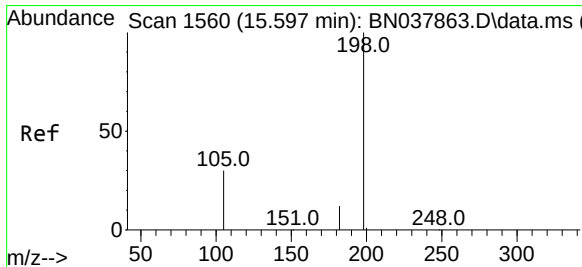
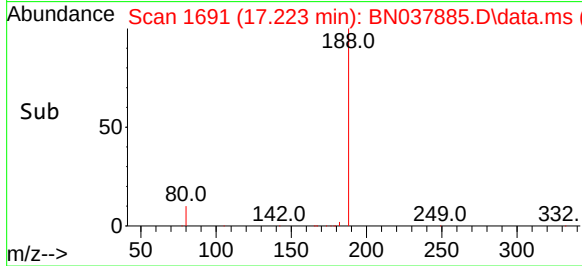
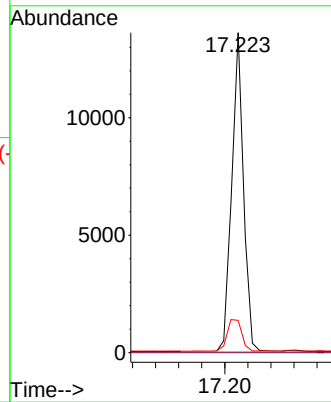
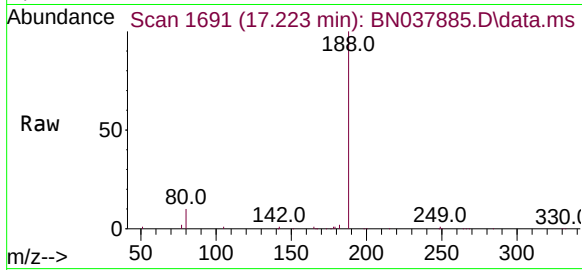
Tgt Ion:188 Resp: 19122

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

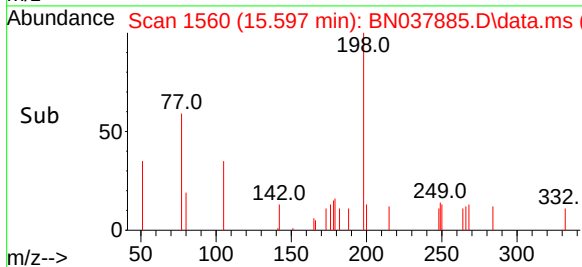
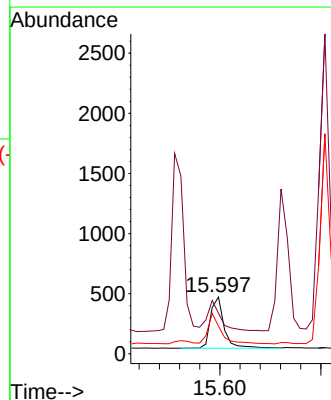
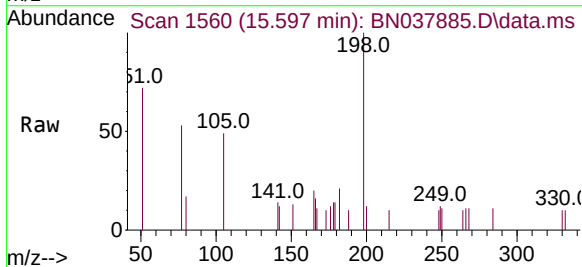
Tgt Ion:198 Resp: 798

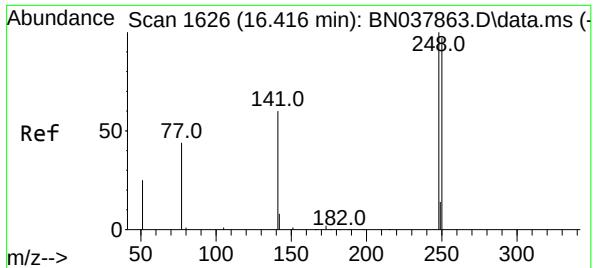
Ion Ratio Lower Upper

198 100

51 71.7 59.1 88.7

105 48.8 41.3 61.9

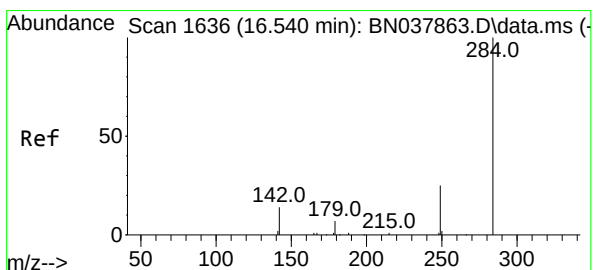
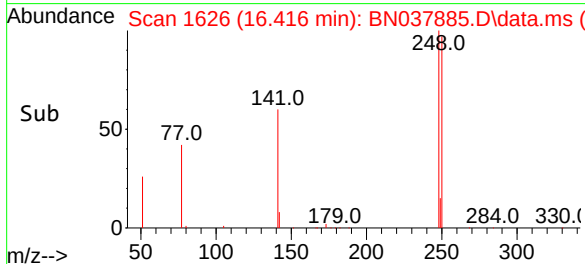
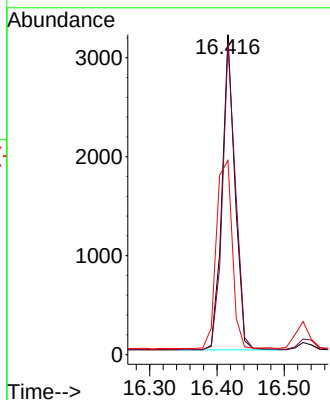
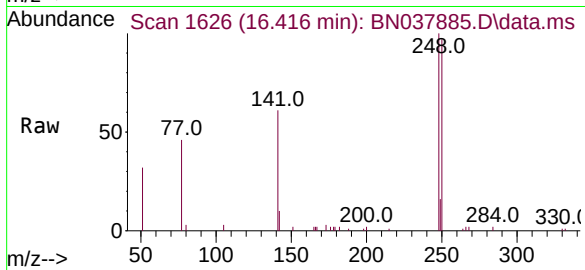




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

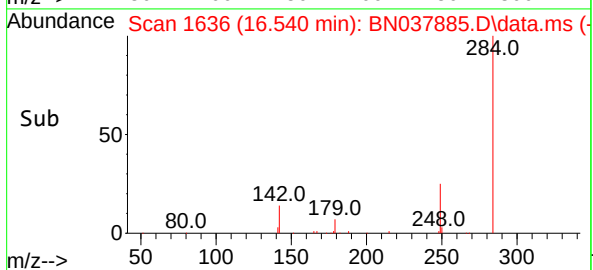
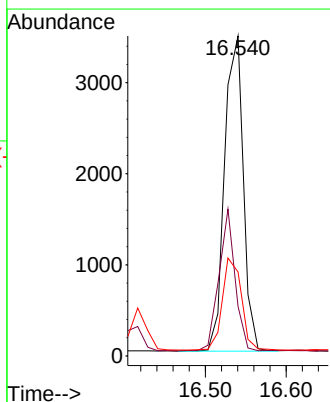
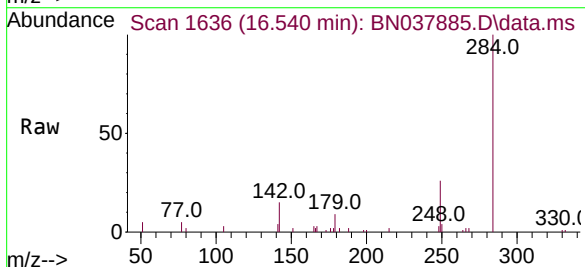
Instrument :
BNA_N
ClientSampleId :
PB169712BS

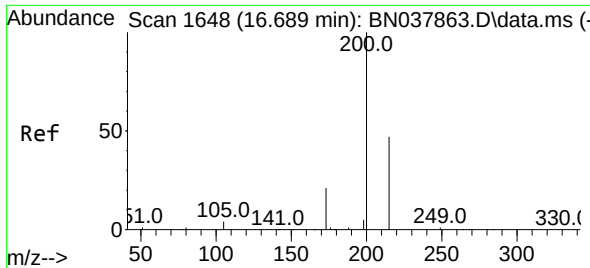
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.6	116.4
141	60.7	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.368 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.6	30.9	46.3
249	29.8	23.9	35.9

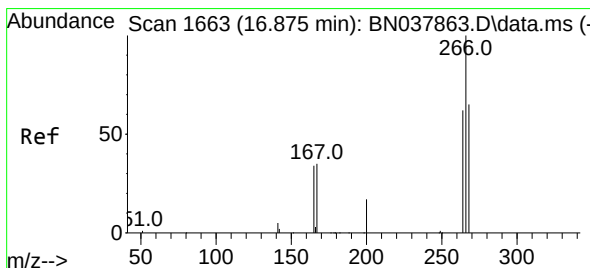
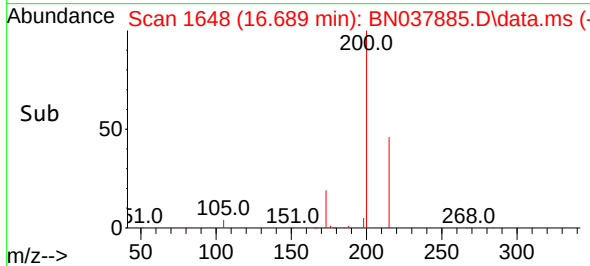
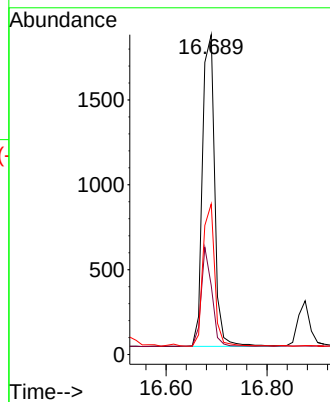
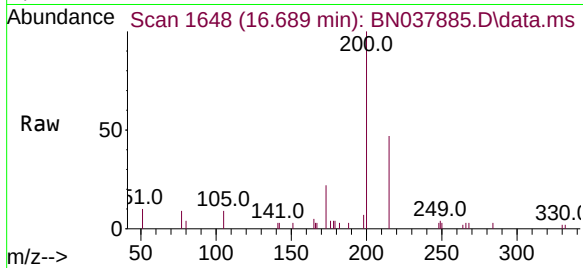




#23
Atrazine
Concen: 0.324 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

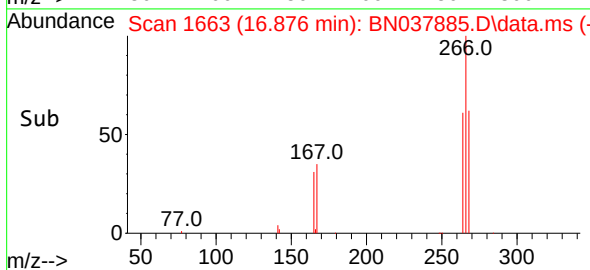
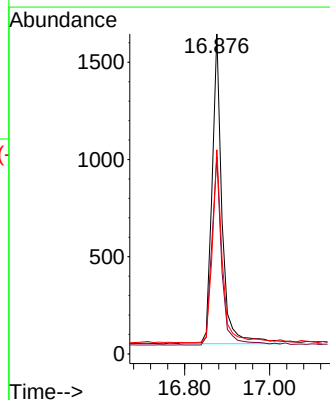
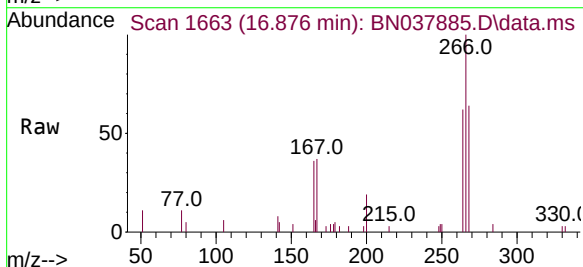
Instrument :
BNA_N
ClientSampleId :
PB169712BS

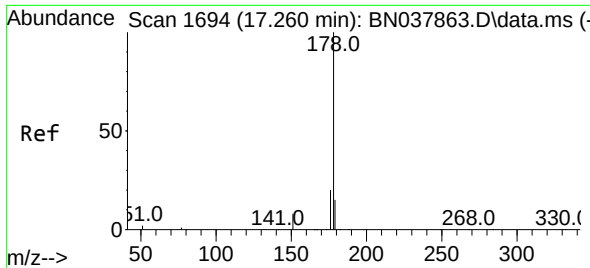
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.5	18.3	27.5
215	47.1	38.6	58.0



#24
Pentachlorophenol
Concen: 0.499 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.8	50.9	76.3
268	61.9	54.3	81.5

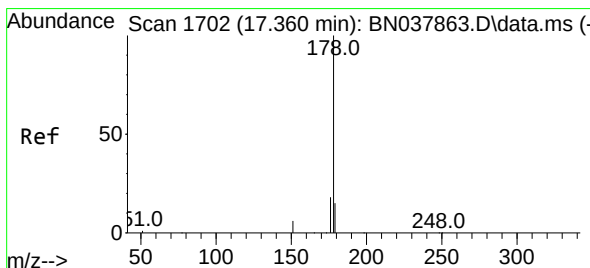
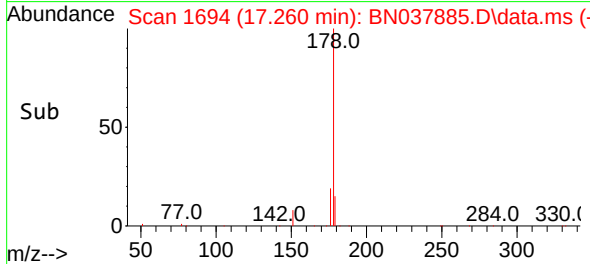
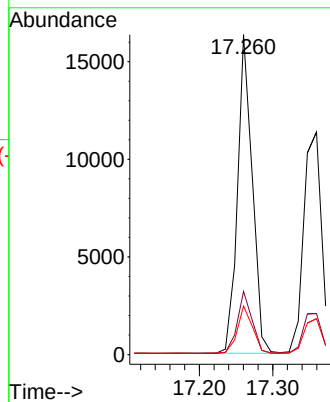
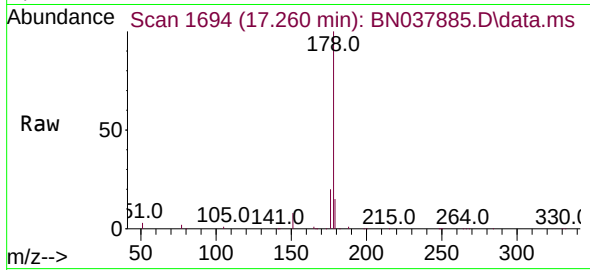




#25
Phenanthrene
Concen: 0.364 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

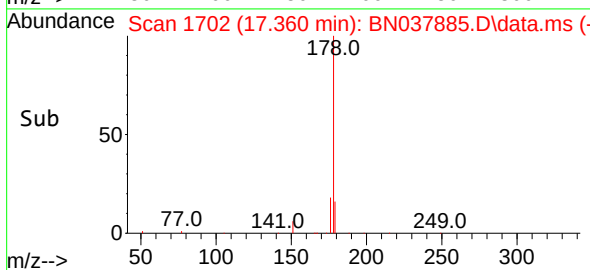
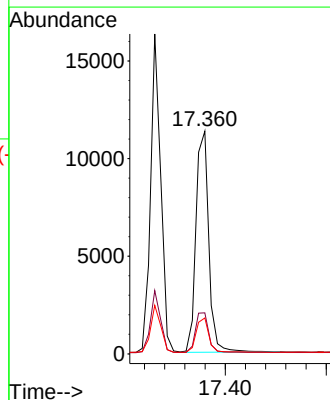
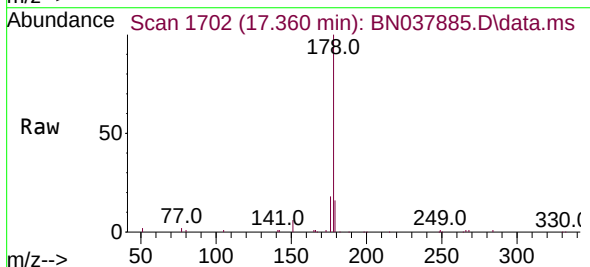
Instrument :
BNA_N
ClientSampleId :
PB169712BS

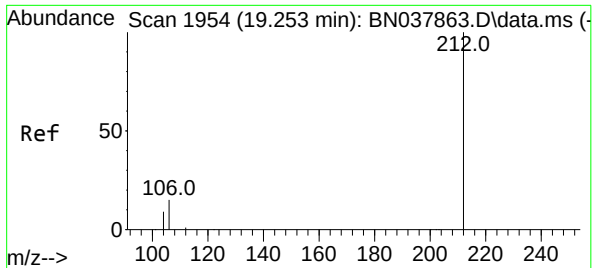
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.2	12.3	18.5



#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.3	18.5

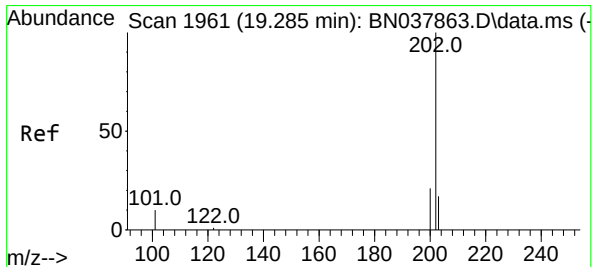
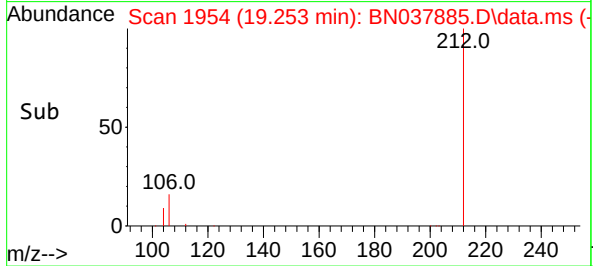
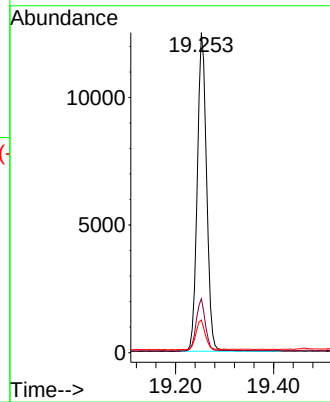
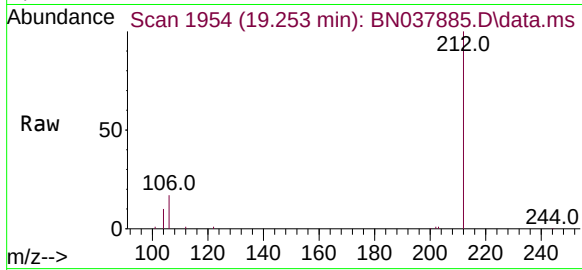




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.253 min Scan# 1954
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

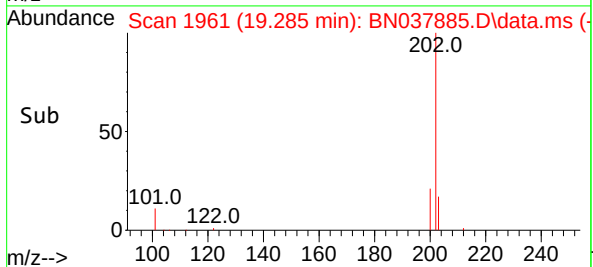
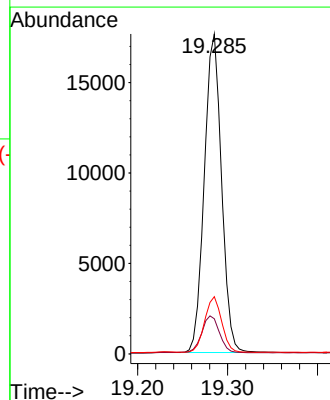
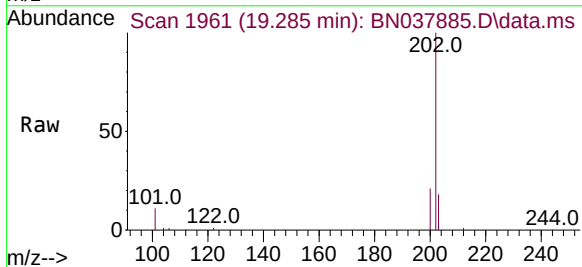
Instrument :
BNA_N
ClientSampleId :
PB169712BS

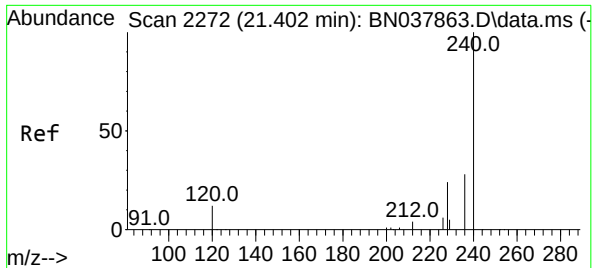
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.6	19.0
104	9.3	7.4	11.0



#28
Fluoranthene
Concen: 0.337 ng
RT: 19.285 min Scan# 1961
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.3	13.9
203	17.3	13.6	20.4

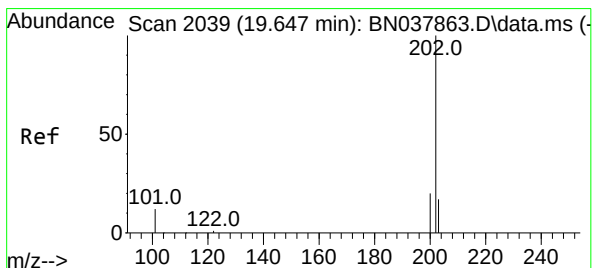
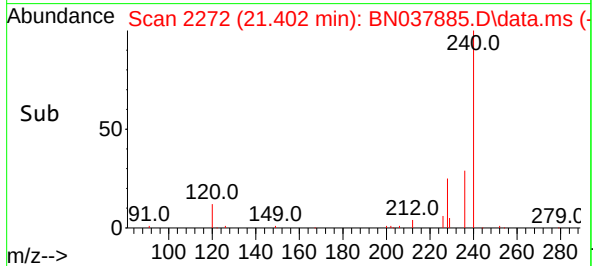
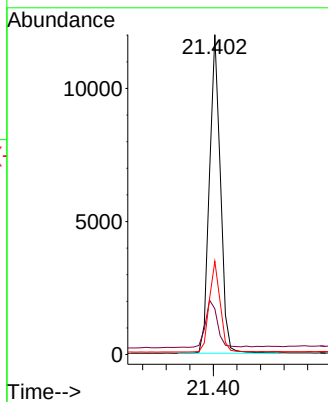
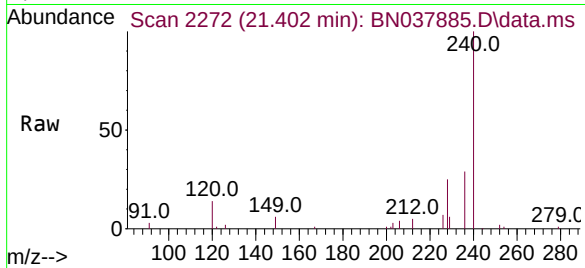




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

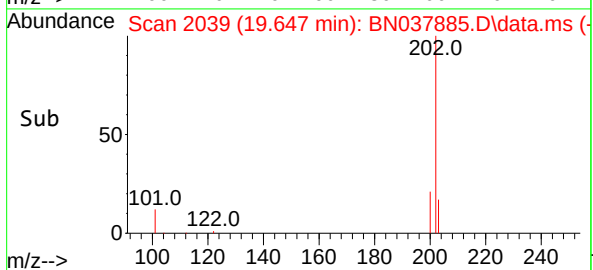
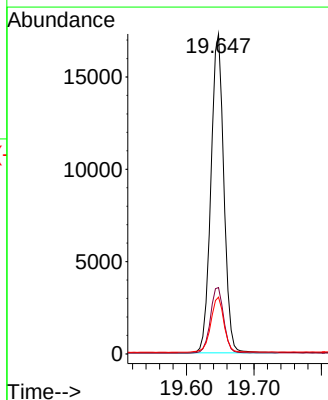
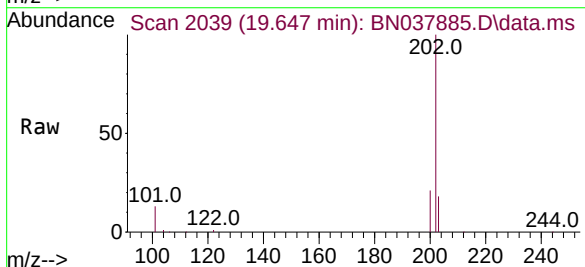
Instrument :
BNA_N
ClientSampleId :
PB169712BS

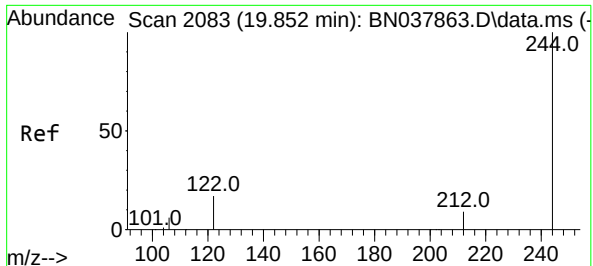
Tgt Ion:	240	Resp:	15460
Ion Ratio	Lower	Upper	
240	100		
120	14.3	11.4	17.2
236	29.2	23.0	34.6



#30
Pyrene
Concen: 0.377 ng
RT: 19.647 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

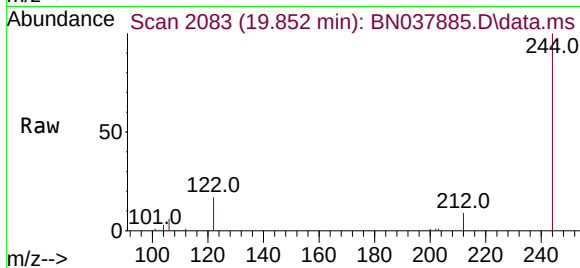
Tgt Ion:	202	Resp:	23008
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4



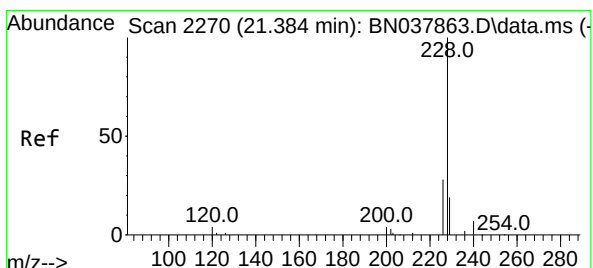
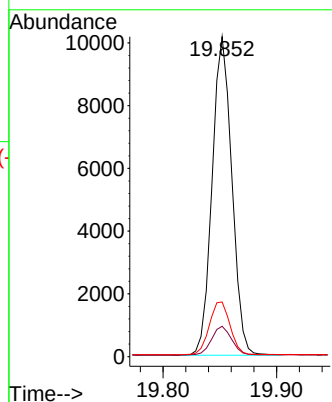


#31
Terphenyl-d14
Concen: 0.399 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Instrument :
BNA_N
ClientSampleId :
PB169712BS

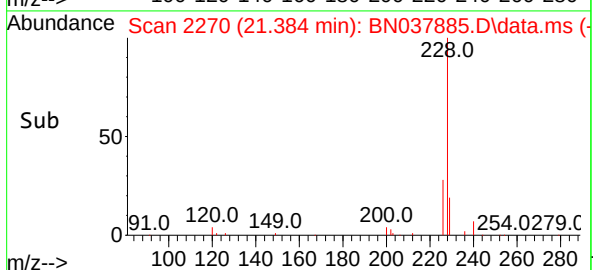
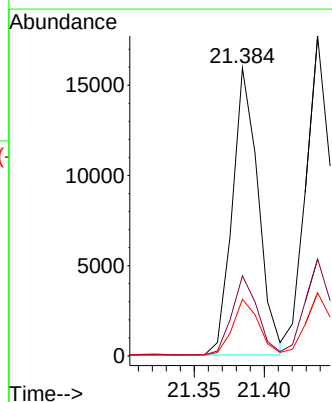
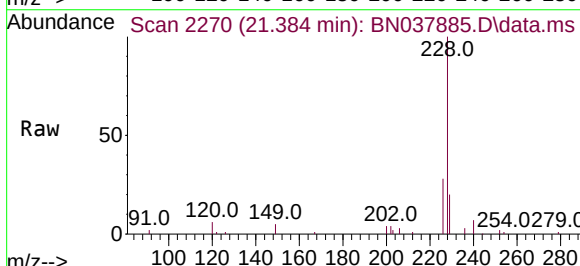


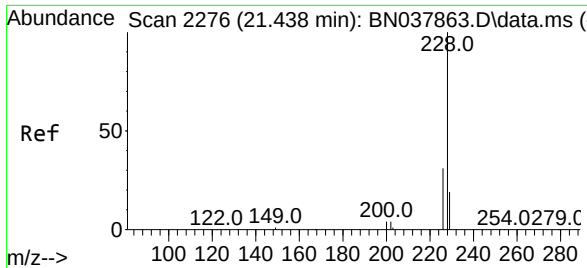
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.1	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	19.7	15.6	23.4





#33

Chrysene

Concen: 0.386 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

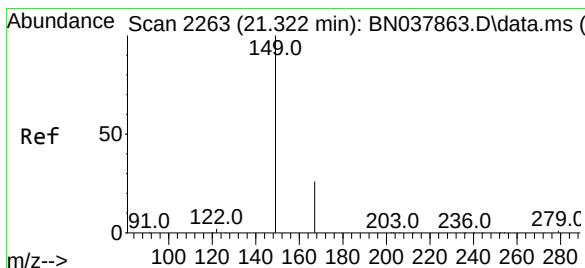
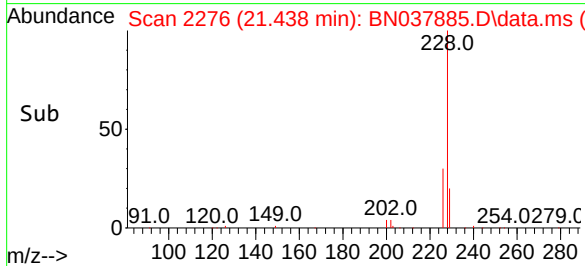
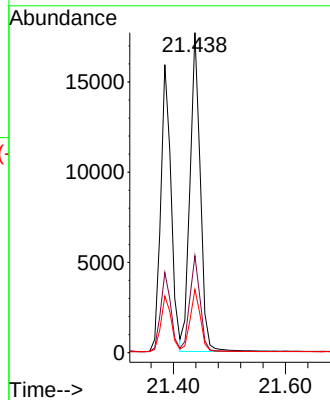
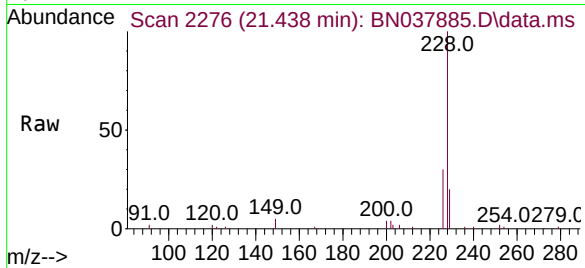
Tgt Ion:228 Resp: 22553

Ion Ratio Lower Upper

228 100

226 30.3 24.6 37.0

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.316 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

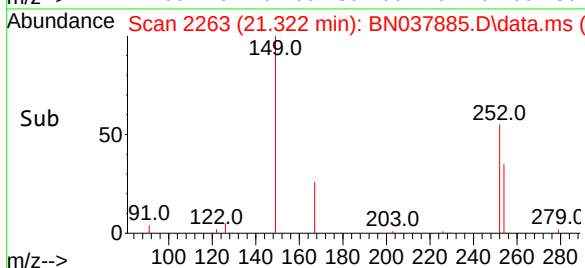
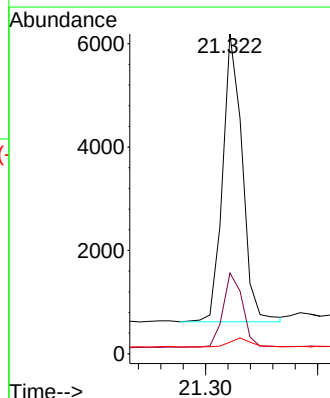
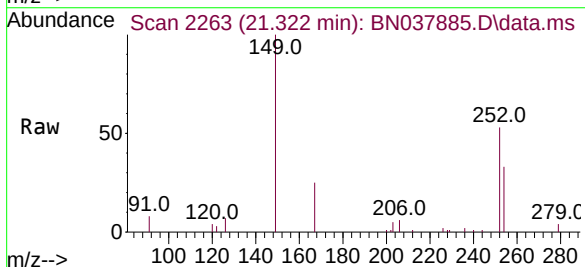
Tgt Ion:149 Resp: 6759

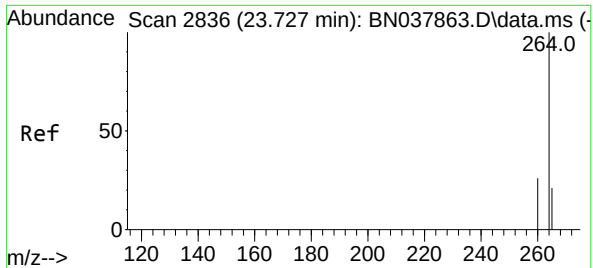
Ion Ratio Lower Upper

149 100

167 25.8 20.4 30.6

279 3.1 2.4 3.6

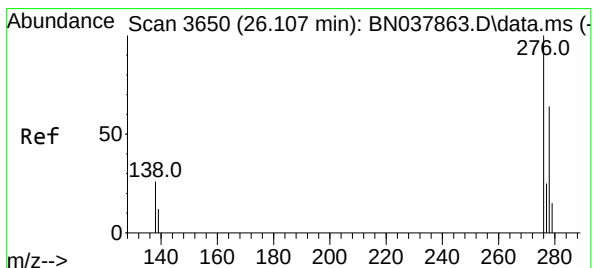
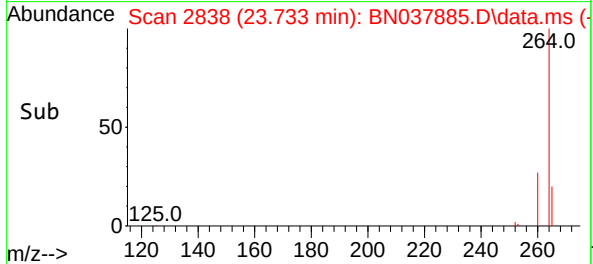
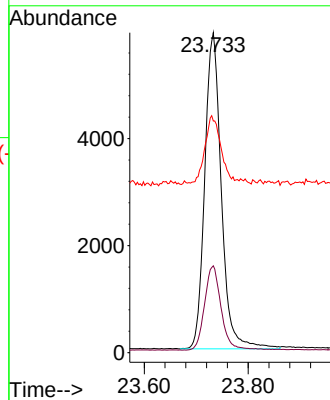
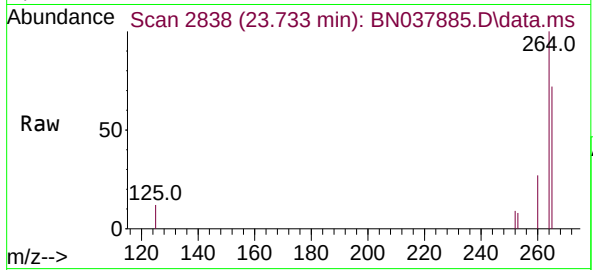




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.733 min Scan# 2836
Delta R.T. 0.006 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

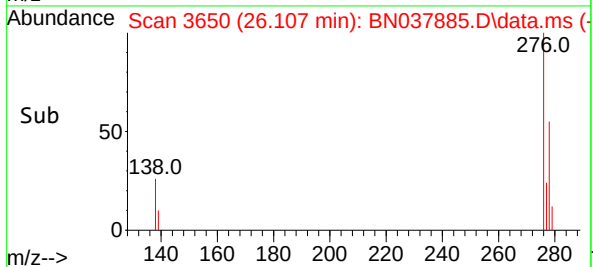
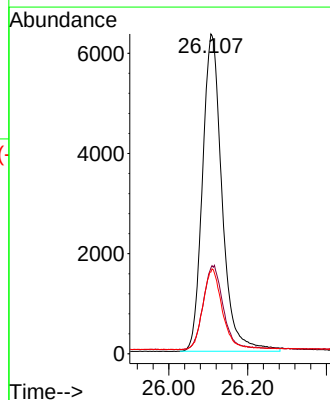
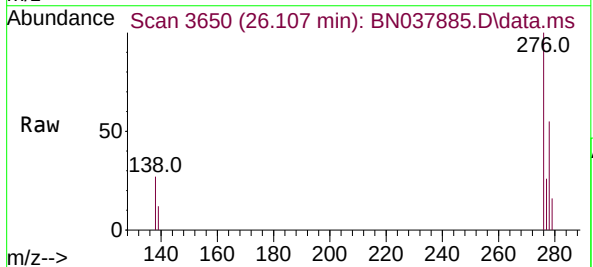
Instrument :
BNA_N
ClientSampleId :
PB169712BS

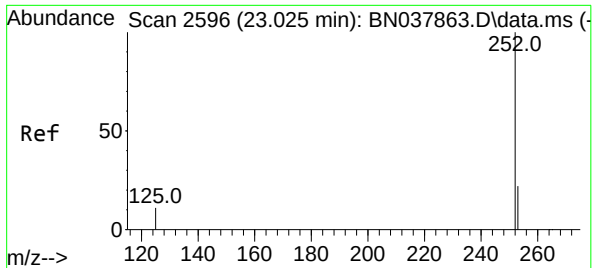
Tgt Ion:264 Resp: 13073
Ion Ratio Lower Upper
264 100
260 27.1 21.5 32.3
265 72.4 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 26.107 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BN037885.D
Acq: 25 Sep 2025 12:44

Tgt Ion:276 Resp: 21870
Ion Ratio Lower Upper
276 100
138 27.1 21.4 32.0
277 24.9 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS

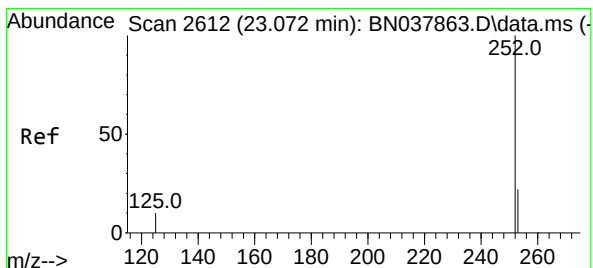
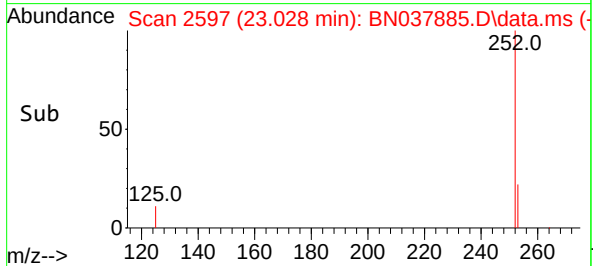
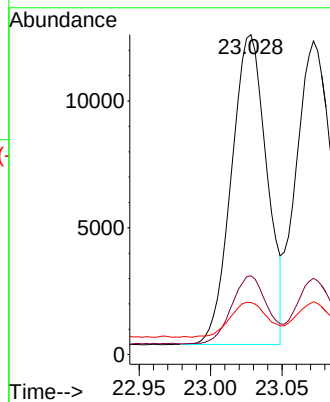
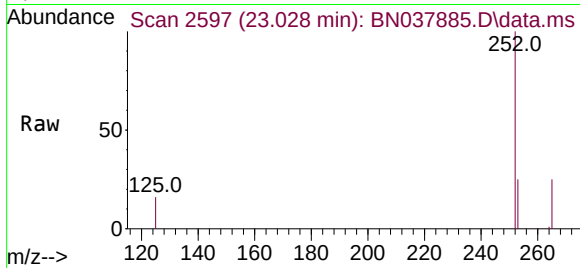
Tgt Ion:252 Resp: 21060

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 16.3 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.373 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

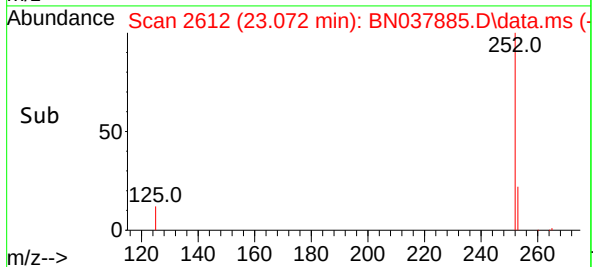
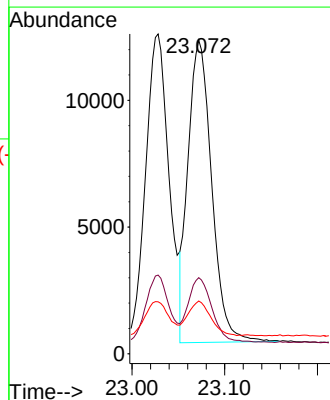
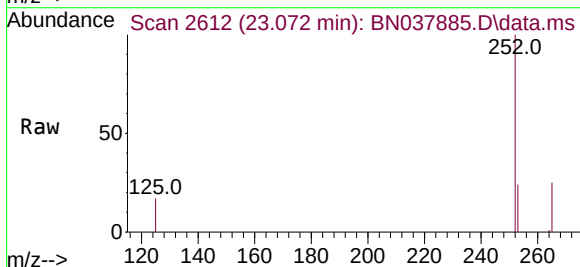
Tgt Ion:252 Resp: 21159

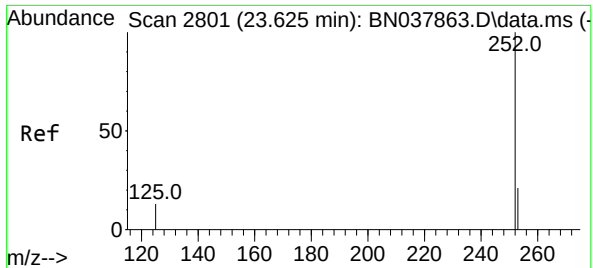
Ion Ratio Lower Upper

252 100

253 24.3 19.5 29.3

125 16.8 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

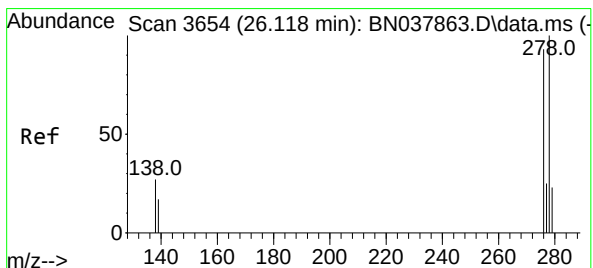
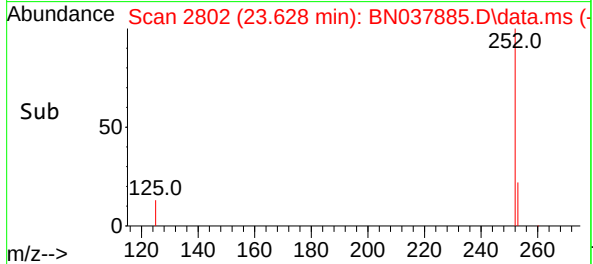
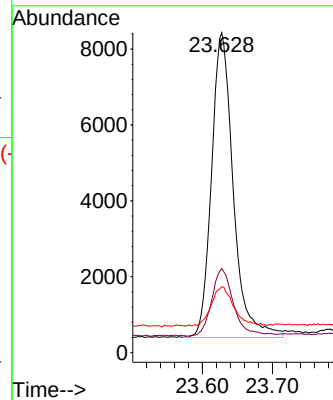
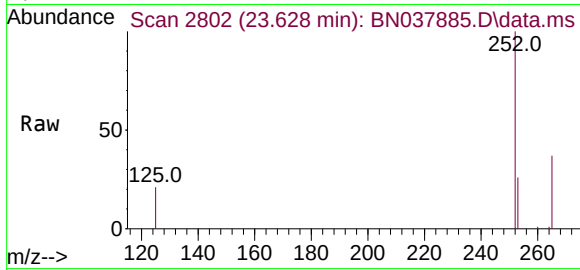
Instrument :

BNA_N

ClientSampleId :

PB169712BS

Tgt Ion:	252	Resp:	17352
Ion Ratio	Lower	Upper	
252	100		
253	26.3	20.6	30.8
125	20.6	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

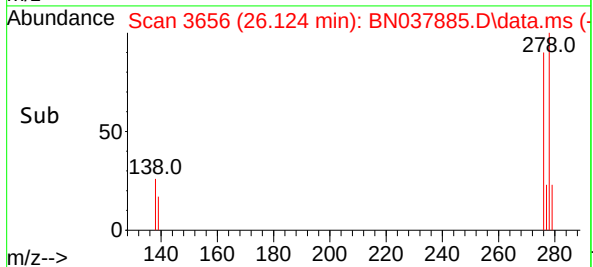
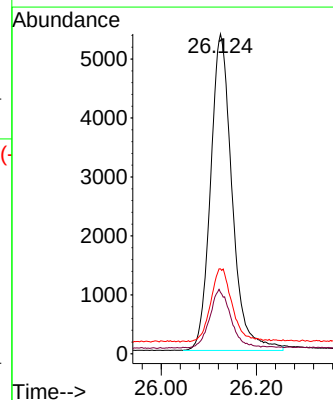
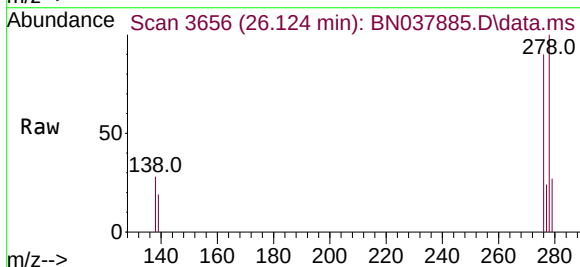
RT: 26.124 min Scan# 3656

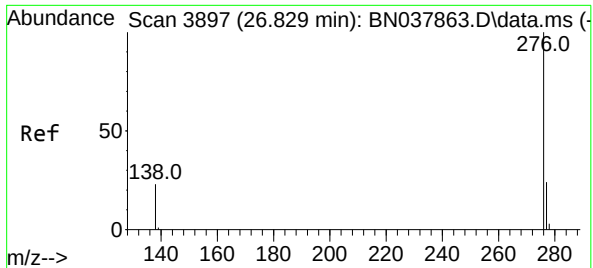
Delta R.T. 0.006 min

Lab File: BN037885.D

Acq: 25 Sep 2025 12:44

Tgt Ion:	278	Resp:	16856
Ion Ratio	Lower	Upper	
278	100		
139	19.2	15.4	23.2
279	26.6	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.832 min Scan# 38

Delta R.T. 0.003 min

Lab File: BN037885.D

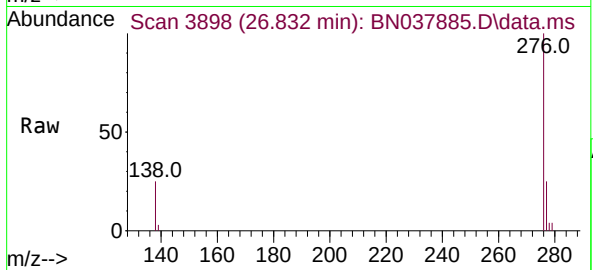
Acq: 25 Sep 2025 12:44

Instrument :

BNA_N

ClientSampleId :

PB169712BS



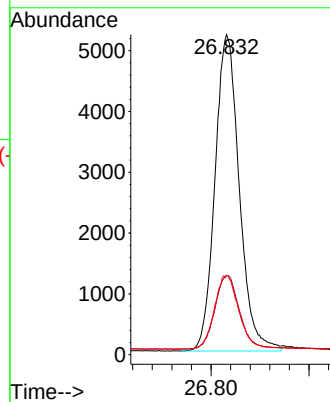
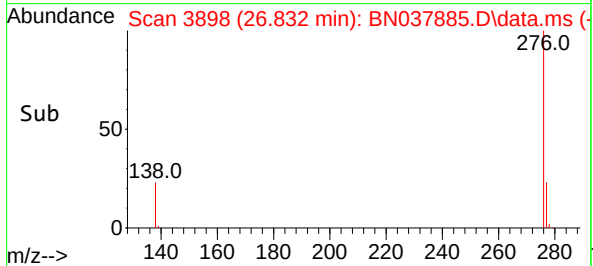
Tgt Ion:276 Resp: 17953

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.4

138 24.7 19.8 29.8



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BSD	SDG No.:	Q3015
Lab Sample ID:	PB169712BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037888.D	1	09/16/25 09:39	09/25/25 14:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.36		0.040	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.31		0.040	0.10	ug/L
208-96-8	Acenaphthylene	0.39		0.040	0.10	ug/L
83-32-9	Acenaphthene	0.35		0.040	0.10	ug/L
86-73-7	Fluorene	0.36		0.040	0.10	ug/L
85-01-8	Phenanthrene	0.36		0.030	0.10	ug/L
120-12-7	Anthracene	0.37		0.040	0.10	ug/L
206-44-0	Fluoranthene	0.32		0.030	0.10	ug/L
129-00-0	Pyrene	0.42		0.030	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.37		0.040	0.10	ug/L
218-01-9	Chrysene	0.39		0.040	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.39		0.040	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.38		0.050	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.040	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.35		0.050	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.36		0.050	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		20 - 139	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		54 - 157	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		27 - 154	97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 - 155	99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		54 - 175	108%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6840	7.826			
1146-65-2	Naphthalene-d8	18500	10.626			
15067-26-2	Acenaphthene-d10	8850	14.473			
1517-22-2	Phenanthrene-d10	17000	17.223			
1719-03-5	Chrysene-d12	11900	21.402			

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB169712BSD	SDG No.:	Q3015
Lab Sample ID:	PB169712BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037888.D	1	09/16/25 09:39	09/25/25 14:34	PB169712

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	9040	23.736			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092525\
 Data File : BN037888.D
 Acq On : 25 Sep 2025 14:34
 Operator : RC/JU
 Sample : PB169712BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169712BSD

Quant Time: Sep 25 15:00:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

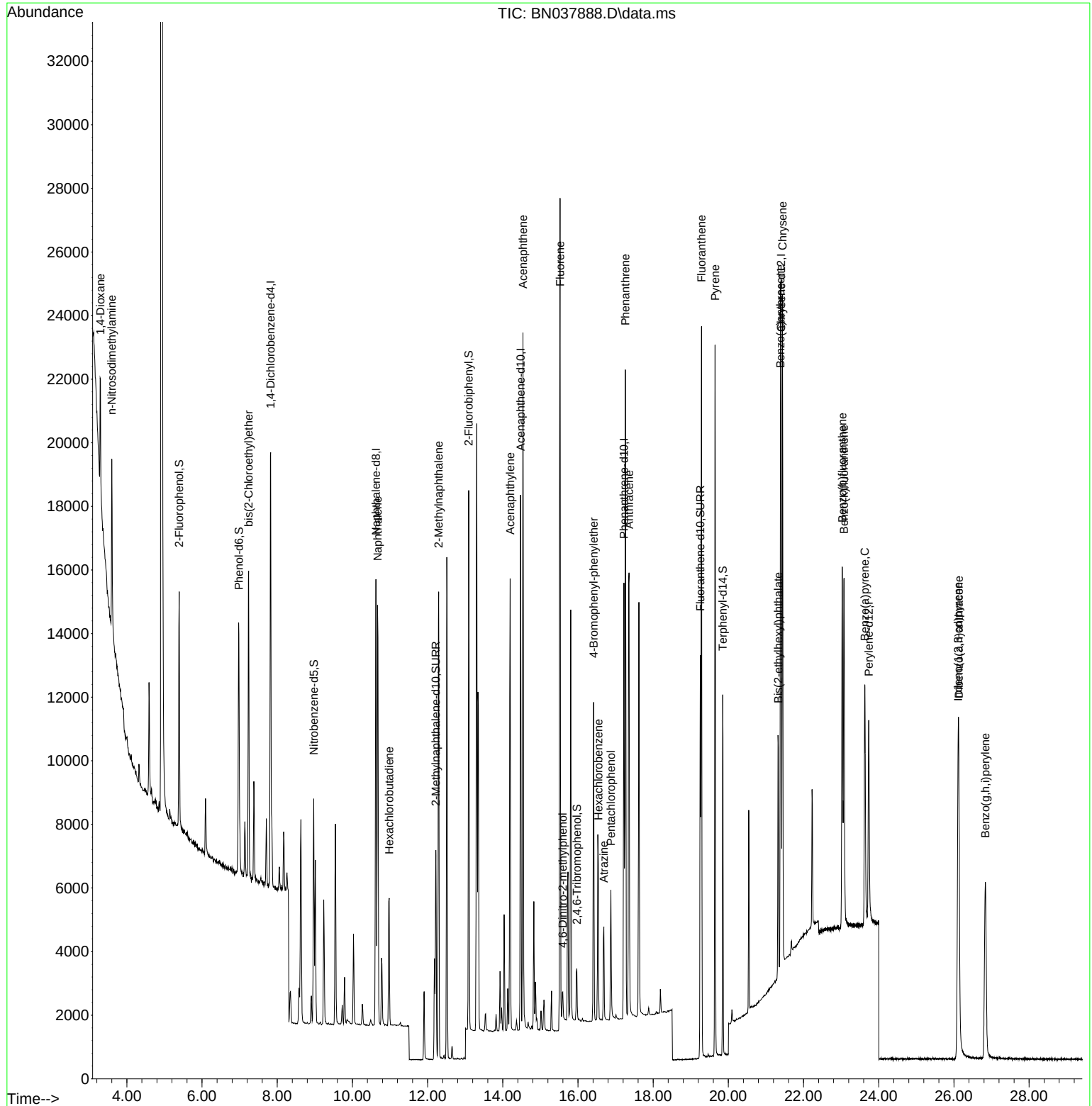
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	6836	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	18512	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8848	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16966	0.400	ng	0.00
29) Chrysene-d12	21.402	240	11857	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	9036	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5760	0.369	ng	0.00
5) Phenol-d6	6.981	99	7323	0.357	ng	0.00
8) Nitrobenzene-d5	8.971	82	5500	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	8949	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1023	0.305	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	14311	0.395	ng	0.00
27) Fluoranthene-d10	19.253	212	13821	0.324	ng	0.00
31) Terphenyl-d14	19.852	244	10203	0.432	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.297	88	2281	0.329	ng	# 34
3) n-Nitrosodimethylamine	3.601	42	3666	0.397	ng	# 83
6) bis(2-Chloroethyl)ether	7.241	93	6927	0.364	ng	98
9) Naphthalene	10.669	128	18228	0.357	ng	99
10) Hexachlorobutadiene	10.979	225	3382	0.389	ng	# 100
12) 2-Methylnaphthalene	12.294	142	10261	0.308	ng	98
16) Acenaphthylene	14.195	152	15564	0.387	ng	99
17) Acenaphthene	14.537	154	10066	0.352	ng	99
18) Fluorene	15.523	166	12500	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	708	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.416	248	3842	0.348	ng	98
22) Hexachlorobenzene	16.540	284	4957	0.370	ng	99
23) Atrazine	16.689	200	2601	0.309	ng	99
24) Pentachlorophenol	16.876	266	2099	0.456	ng	95
25) Phenanthrene	17.260	178	20245	0.363	ng	100
26) Anthracene	17.360	178	17667	0.365	ng	100
28) Fluoranthene	19.285	202	19835	0.323	ng	99
30) Pyrene	19.648	202	19419	0.415	ng	100
32) Benzo(a)anthracene	21.384	228	15371	0.371	ng	99
33) Chrysene	21.438	228	17365	0.388	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	4456	0.272	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	14519	0.352	ng	99
37) Benzo(b)fluoranthene	23.028	252	15158	0.389	ng	96
38) Benzo(k)fluoranthene	23.078	252	14723	0.376	ng	96
39) Benzo(a)pyrene	23.630	252	12124	0.393	ng	96
40) Dibenzo(a,h)anthracene	26.127	278	11453	0.355	ng	95
41) Benzo(g,h,i)perylene	26.838	276	12421	0.367	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

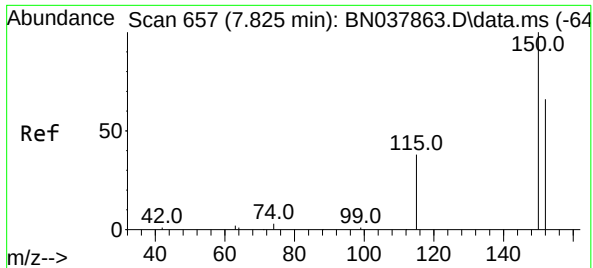
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Data File : BN037888.D
Acq On : 25 Sep 2025 14:34
Operator : RC/JU
Sample : PB169712BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169712BSD

Quant Time: Sep 25 15:00:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



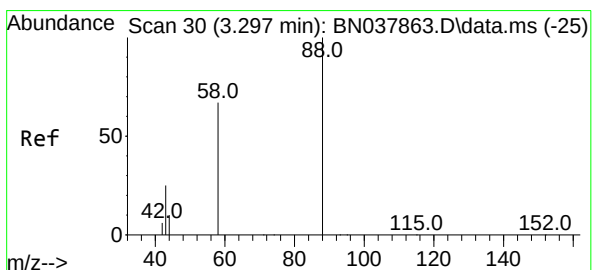
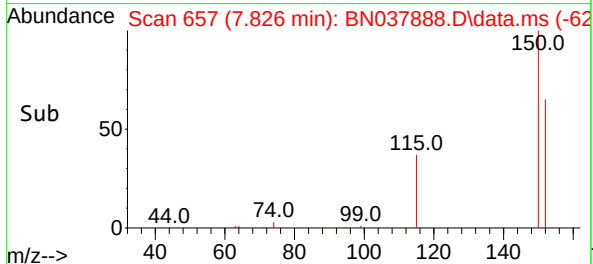
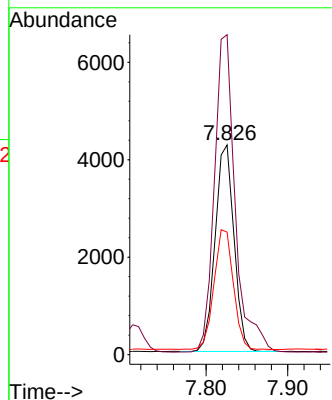
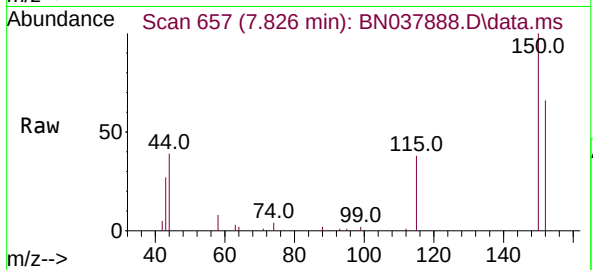
1
2
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16
17



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

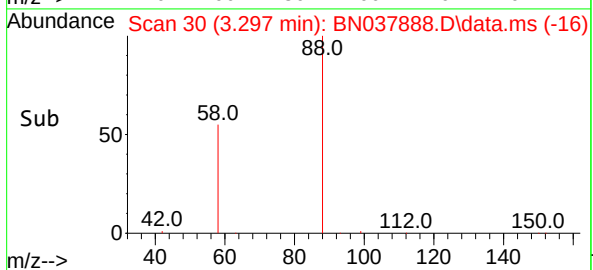
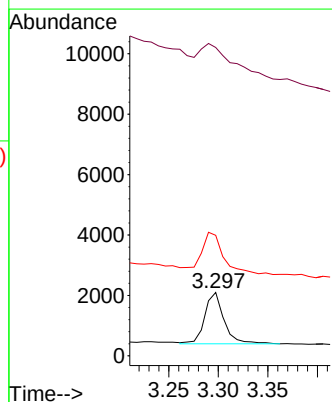
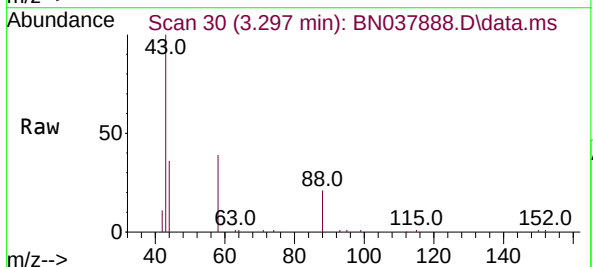
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

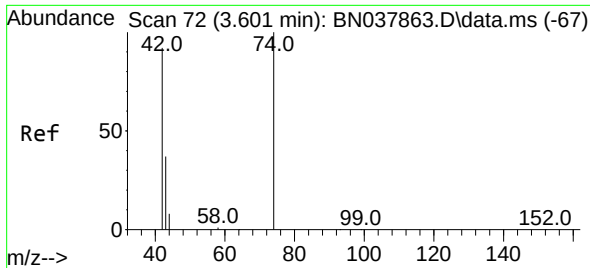
Tgt Ion:152 Resp: 6836
Ion Ratio Lower Upper
152 100
150 152.6 121.0 181.4
115 58.4 47.4 71.0



#2
1,4-Dioxane
Concen: 0.329 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 88 Resp: 2281
Ion Ratio Lower Upper
88 100
43 116.9 26.6 39.8#
58 98.1 58.9 88.3#

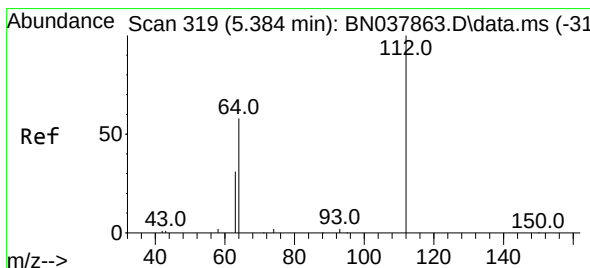
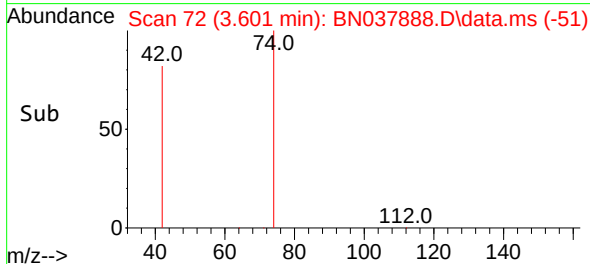
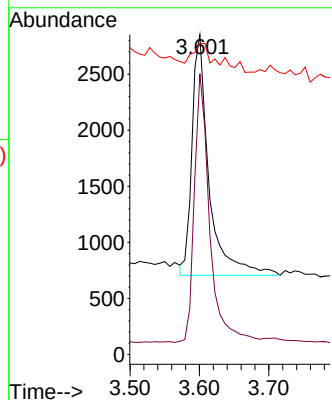
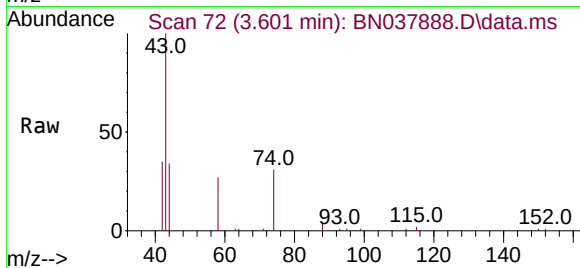




#3
n-Nitrosodimethylamine
Concen: 0.397 ng
RT: 3.601 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

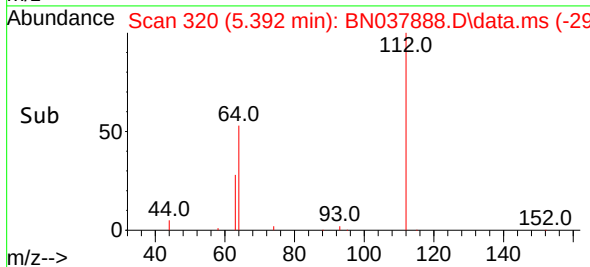
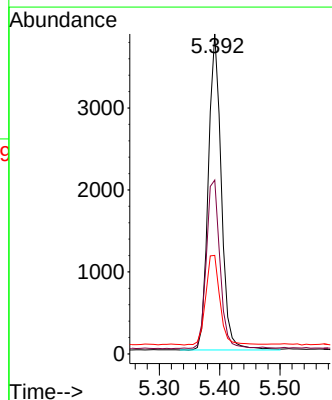
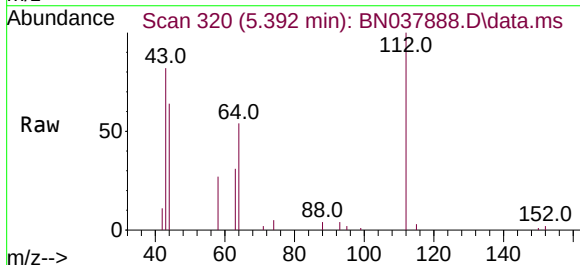
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

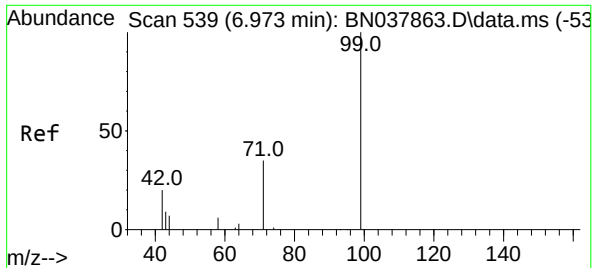
Tgt Ion: 42 Resp: 3666
Ion Ratio Lower Upper
42 100
74 99.6 93.4 140.0
44 16.8 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.369 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion: 112 Resp: 5760
Ion Ratio Lower Upper
112 100
64 56.3 44.6 66.8
63 31.1 24.9 37.3

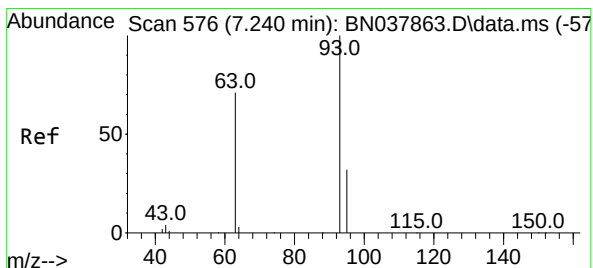
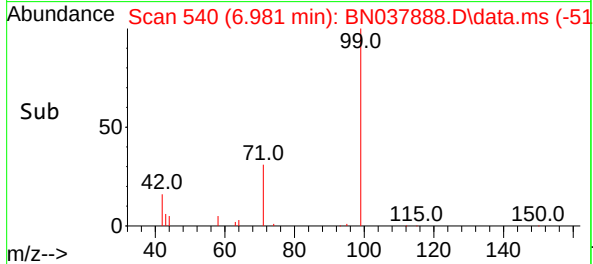
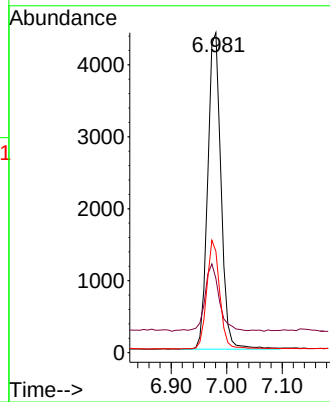
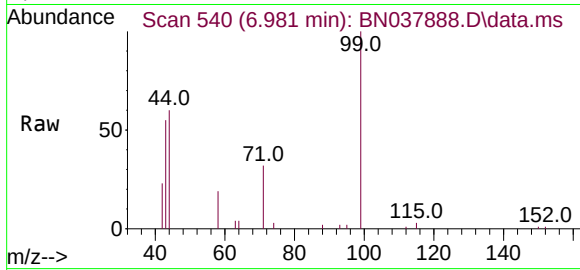




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.981 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

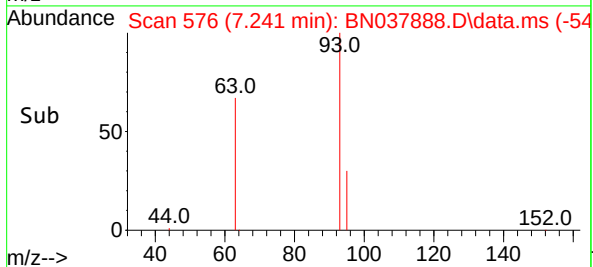
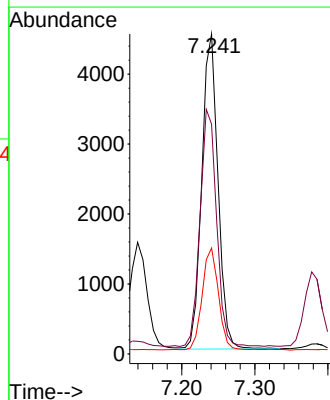
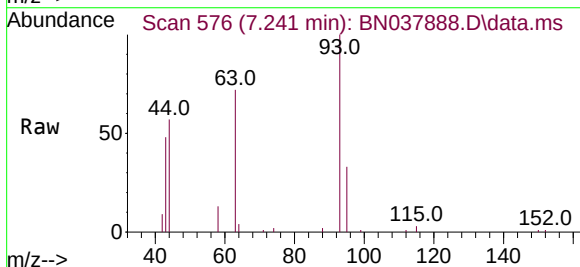
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

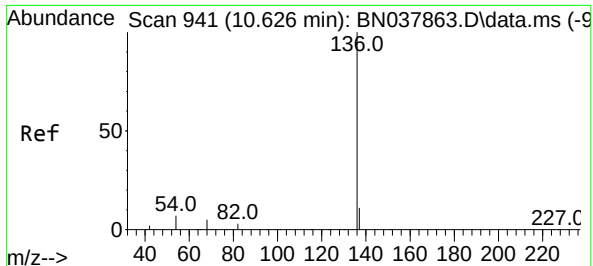
Tgt Ion:	99	Resp:	7323
Ion	Ratio	Lower	Upper
99	100		
42	23.0	17.2	25.8
71	33.6	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	93	Resp:	6927
Ion	Ratio	Lower	Upper
93	100		
63	76.6	60.1	90.1
95	32.4	25.4	38.2

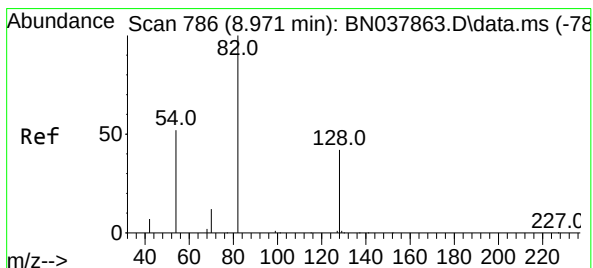
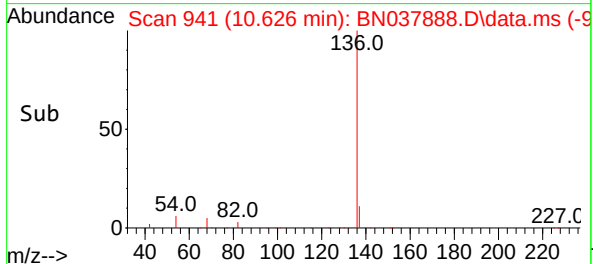
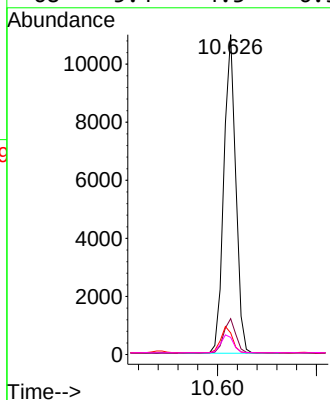
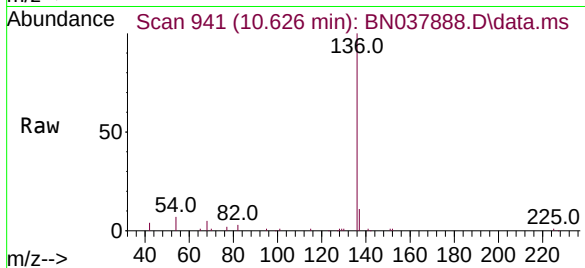




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

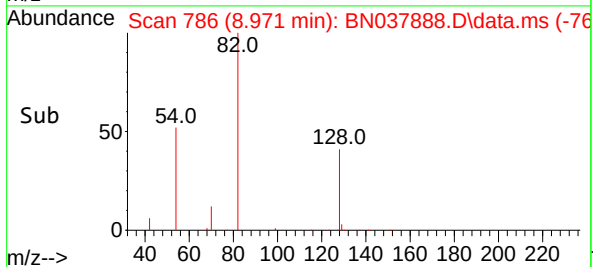
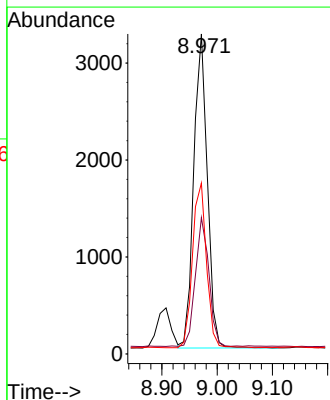
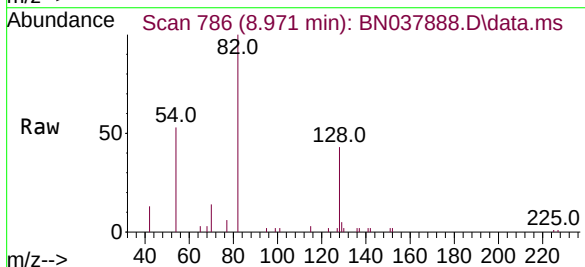
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

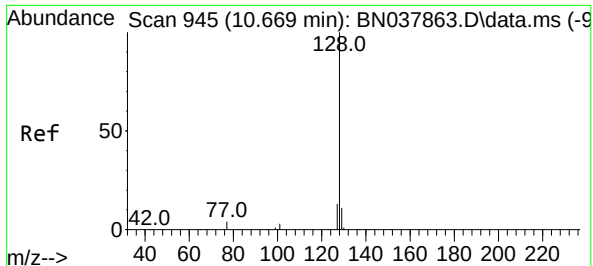
Tgt Ion:	136	Resp:	18512
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	6.8	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	82	Resp:	5500
Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.8	52.2
54	53.4	42.2	63.2

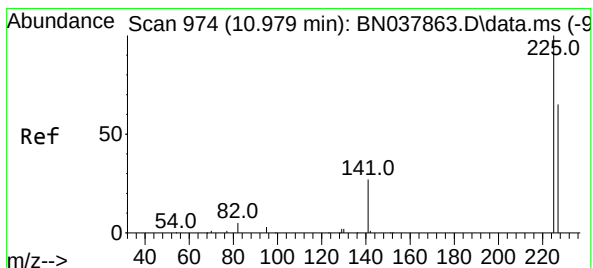
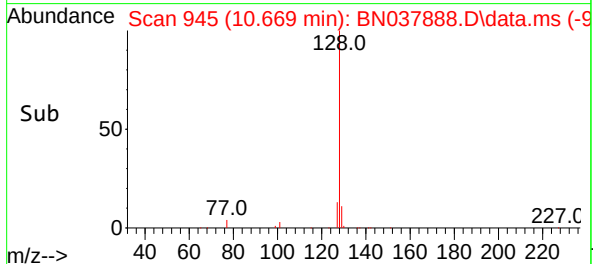
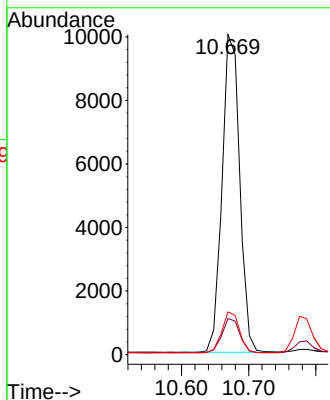
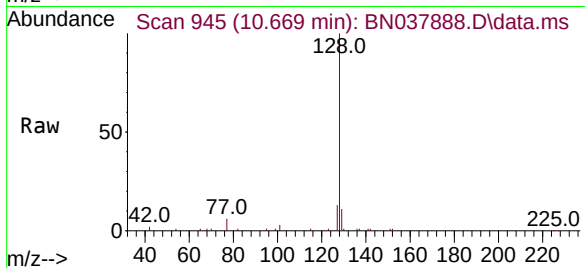




#9
Naphthalene
Concen: 0.357 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

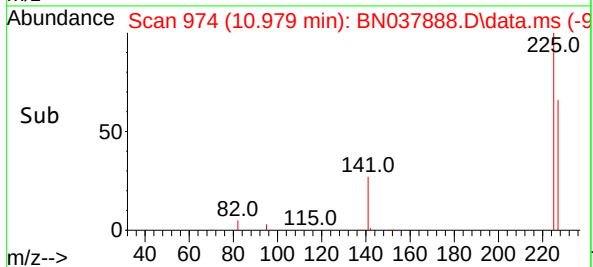
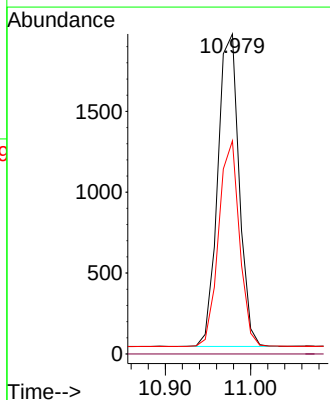
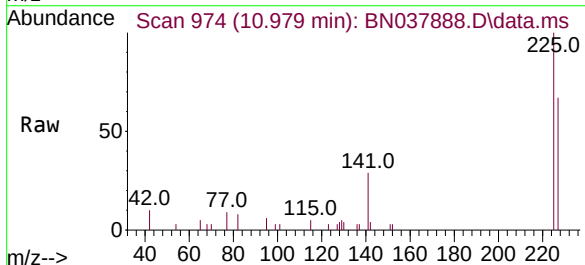
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

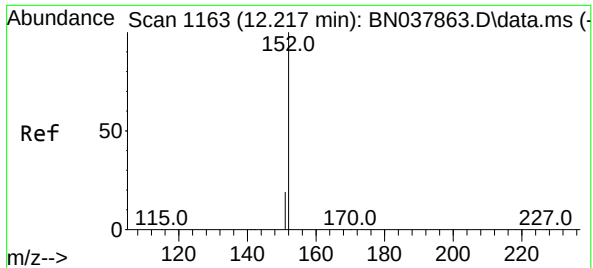
Tgt Ion:	128	Resp:	18228
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.3	11.0	16.6



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	225	Resp:	3382
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.4	77.2

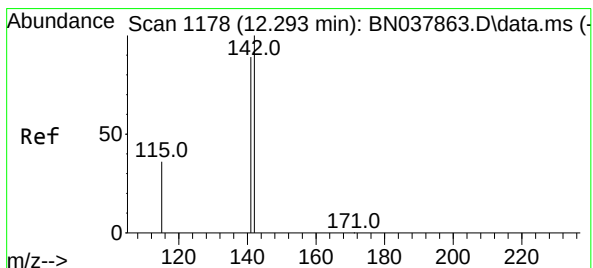
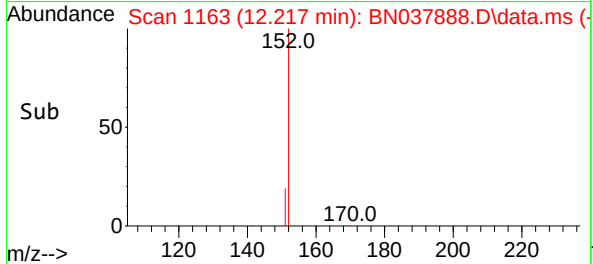
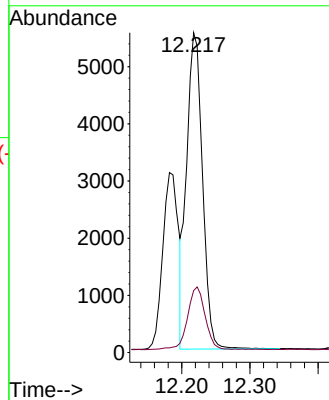
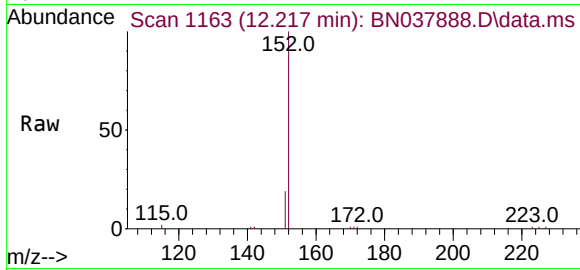




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

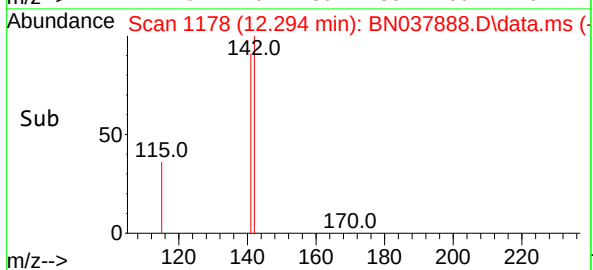
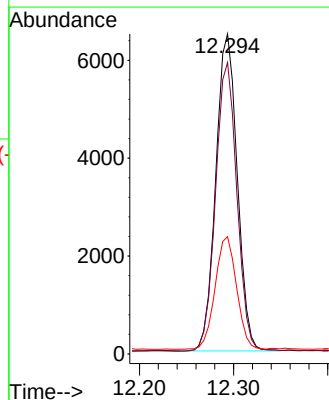
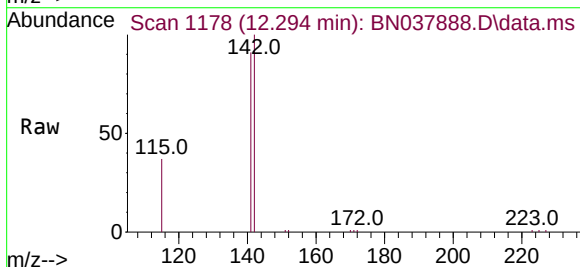
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

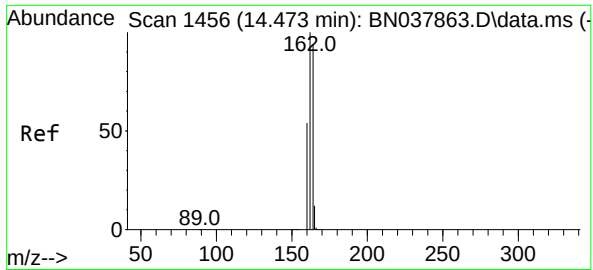
Tgt Ion:152 Resp: 8949
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.294 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:142 Resp: 10261
Ion Ratio Lower Upper
142 100
141 91.1 71.2 106.8
115 36.7 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 14

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

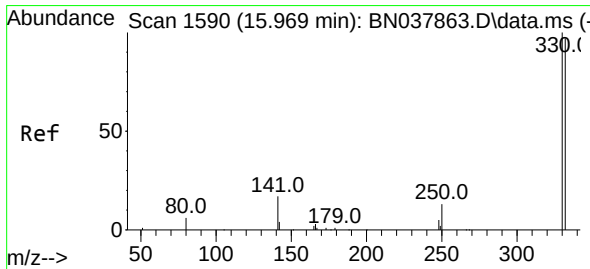
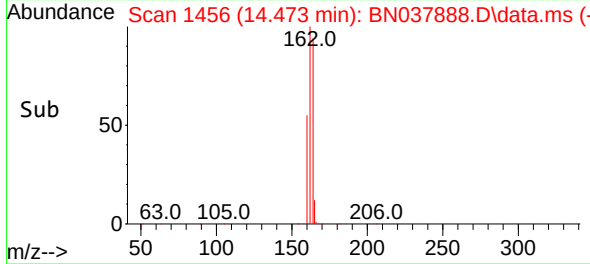
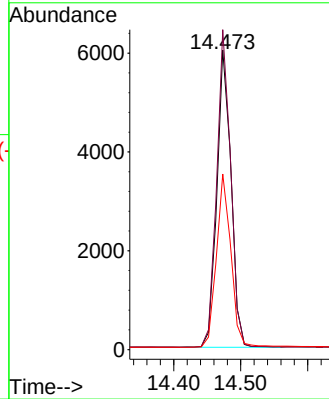
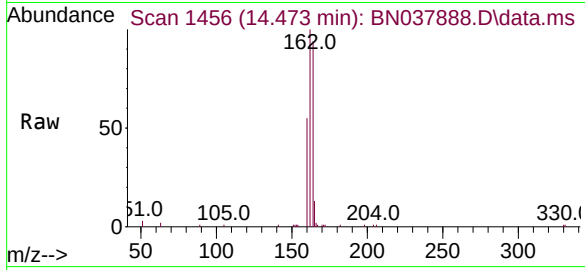
Tgt Ion:164 Resp: 8848

Ion	Ratio	Lower	Upper
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164	100		
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162	106.8	84.8	127.2
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160	58.6	46.1	69.1
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#14

2,4,6-Tribromophenol

Concen: 0.305 ng

RT: 15.969 min Scan# 1590

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

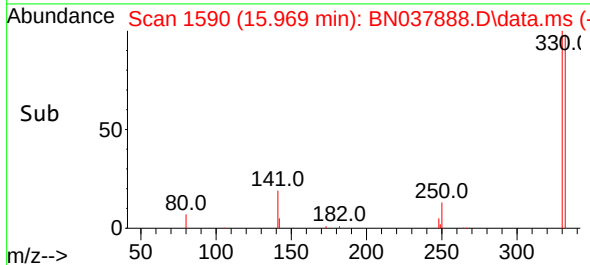
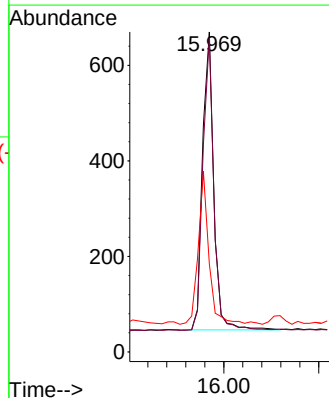
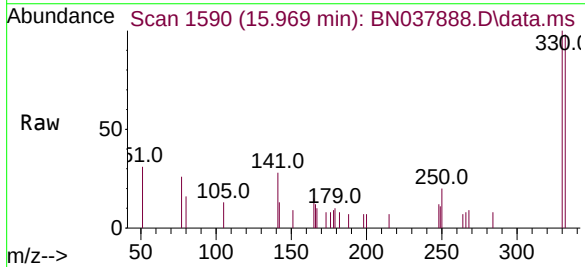
Tgt Ion:330 Resp: 1023

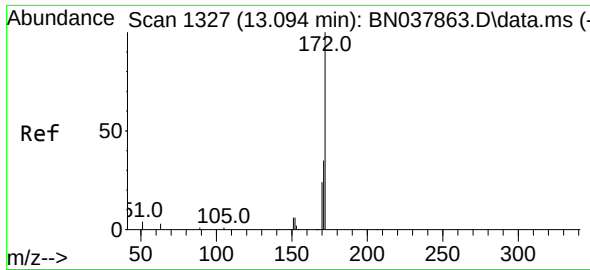
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

330	100		
-----	-----	--	--

332	95.9	77.2	115.8
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141	49.0	37.2	55.8
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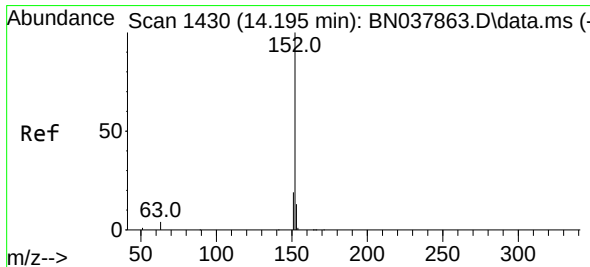
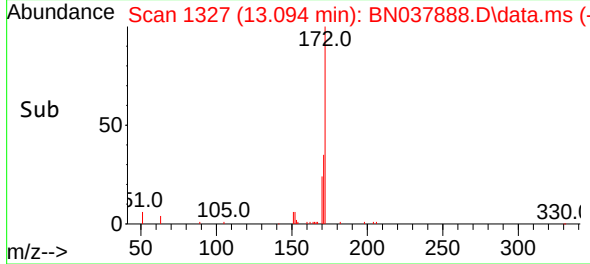
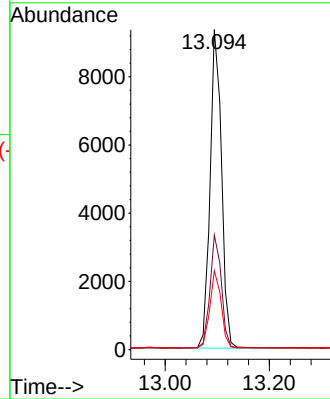
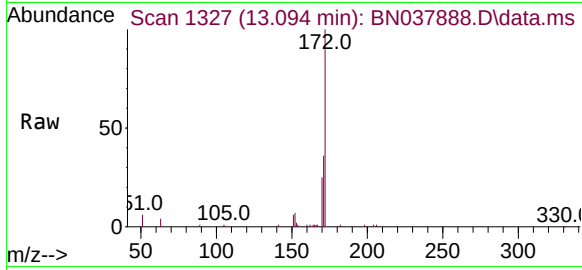




#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

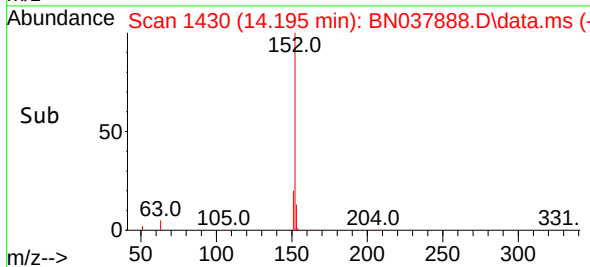
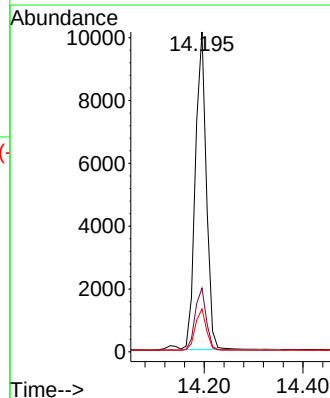
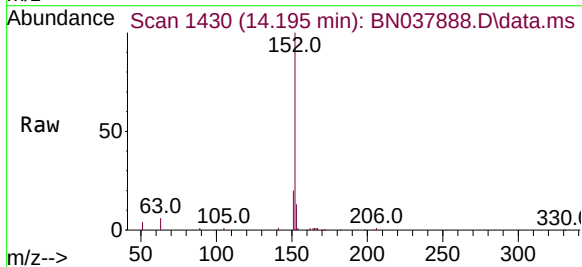
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

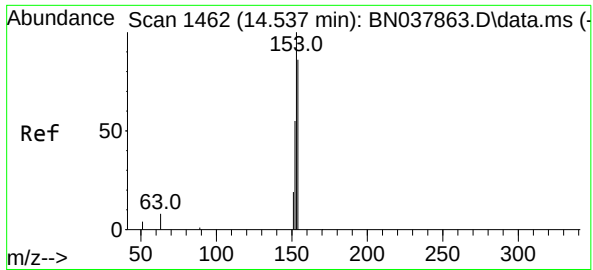
Tgt Ion:	172	Resp:	14311
Ion Ratio	Lower	Upper	
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	152	Resp:	15564
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	12.8	10.5	15.7

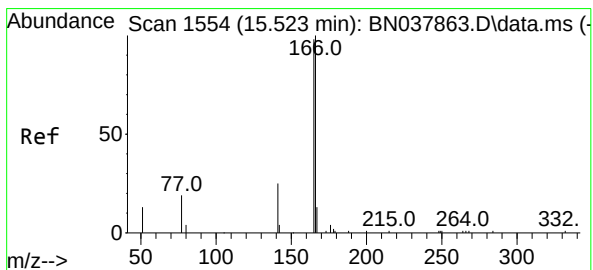
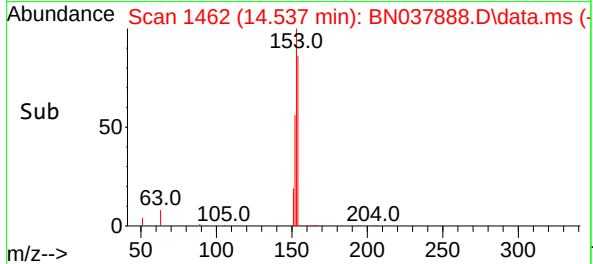
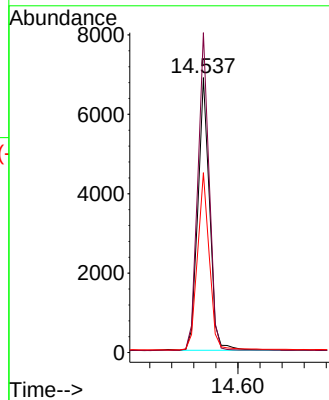
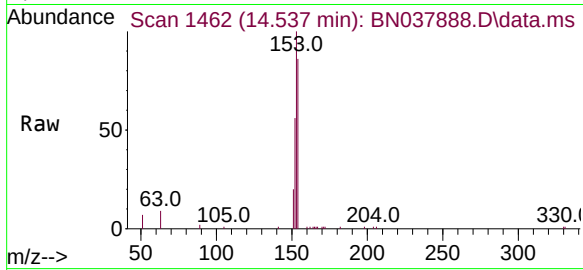




#17
Acenaphthene
Concen: 0.352 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

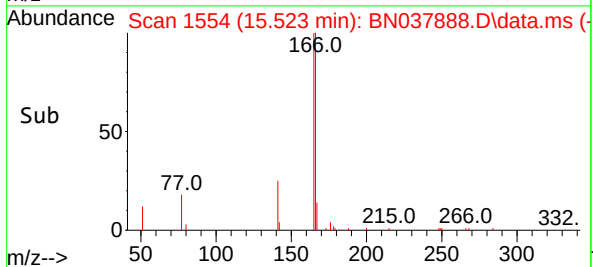
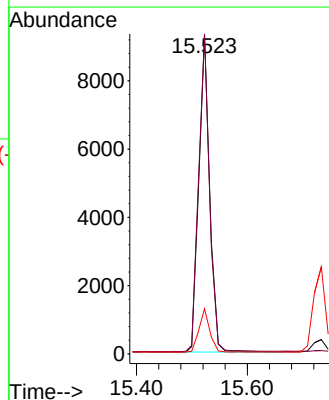
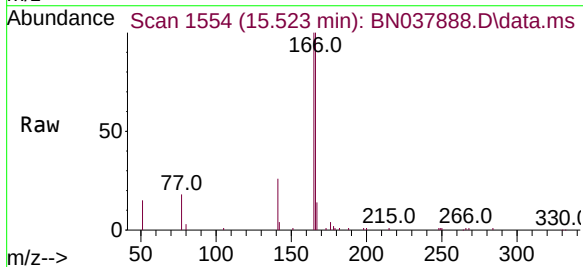
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

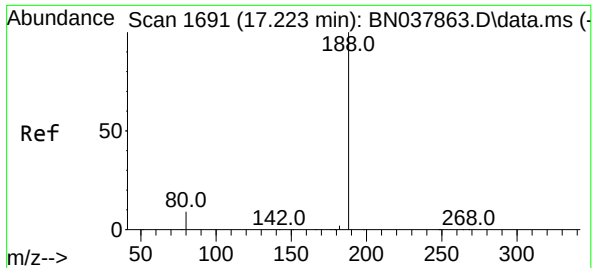
Tgt Ion:	154	Resp:	10066
Ion Ratio	Lower	Upper	
154	100		
153	114.0	90.5	135.7
152	65.9	51.8	77.8



#18
Fluorene
Concen: 0.361 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:	166	Resp:	12500
Ion Ratio	Lower	Upper	
166	100		
165	98.1	79.0	118.4
167	13.5	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

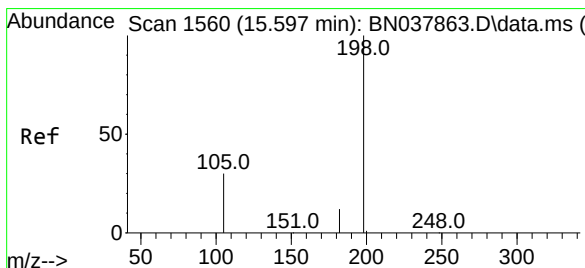
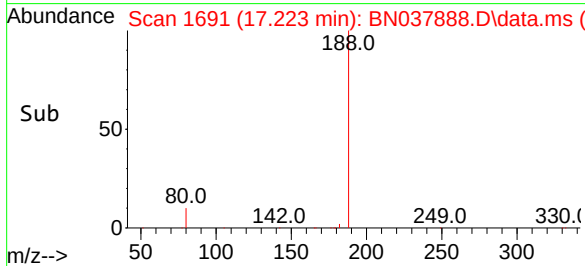
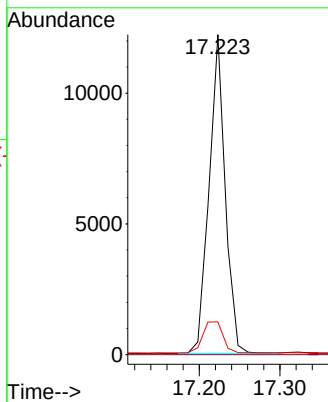
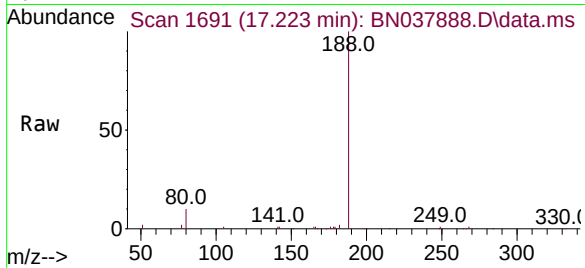
Tgt Ion:188 Resp: 16966

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

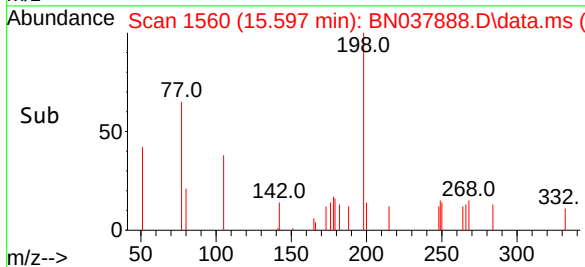
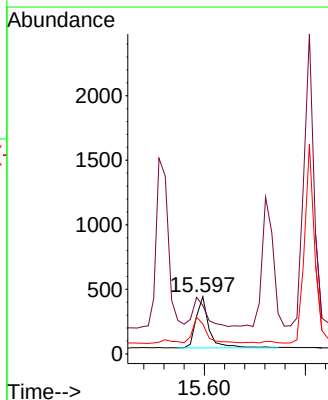
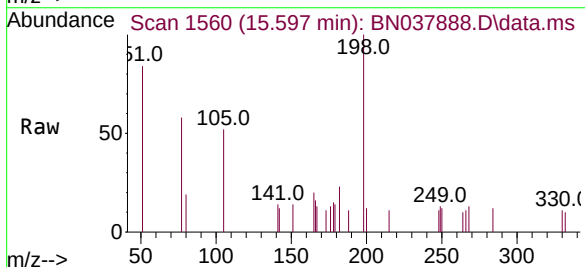
Tgt Ion:198 Resp: 708

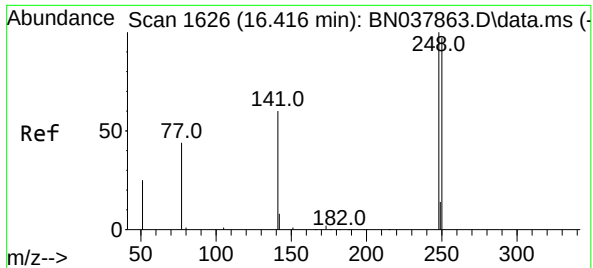
Ion Ratio Lower Upper

198 100

51 84.5 59.1 88.7

105 52.3 41.3 61.9

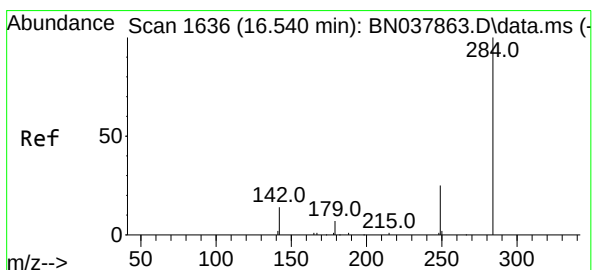
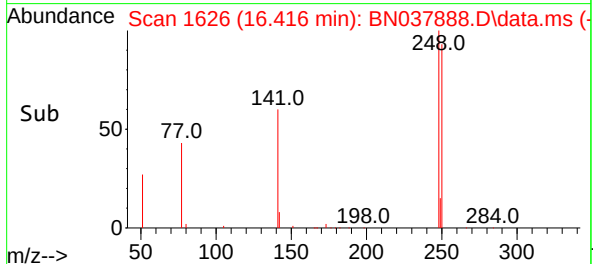
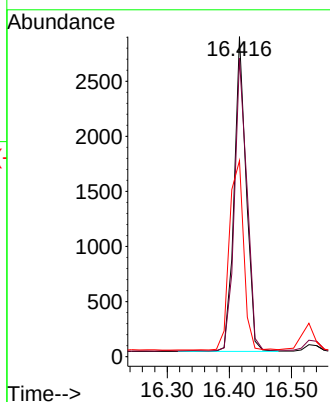
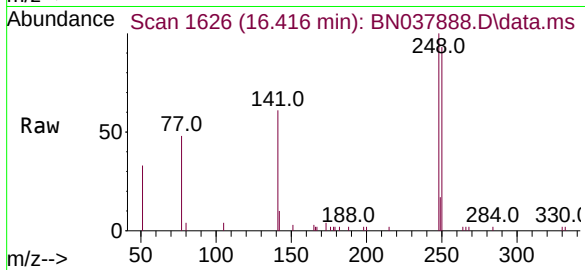




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

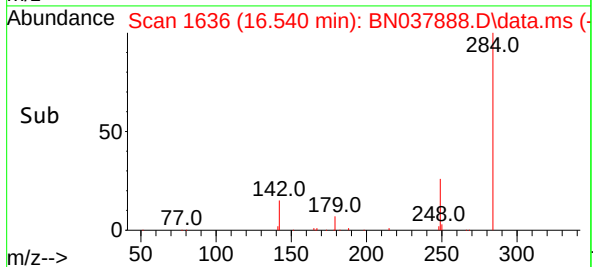
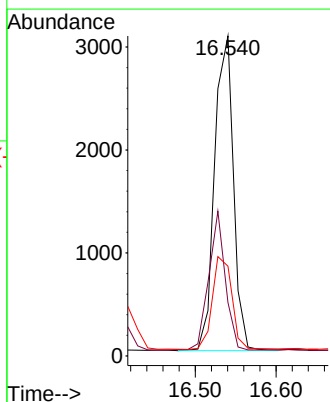
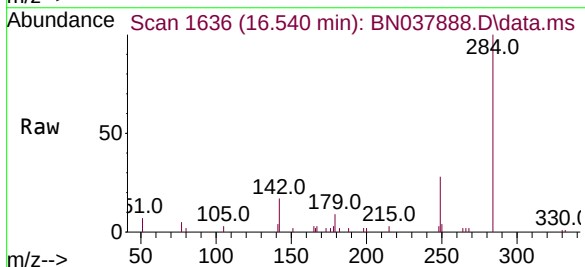
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

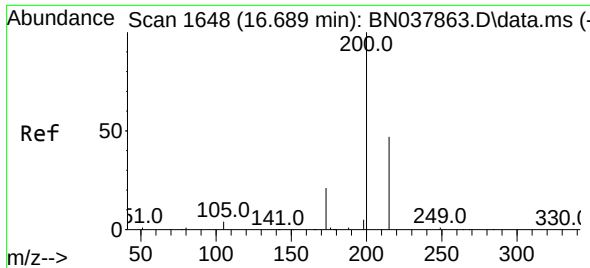
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.2	77.6	116.4
141	61.3	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	30.6	23.9	35.9

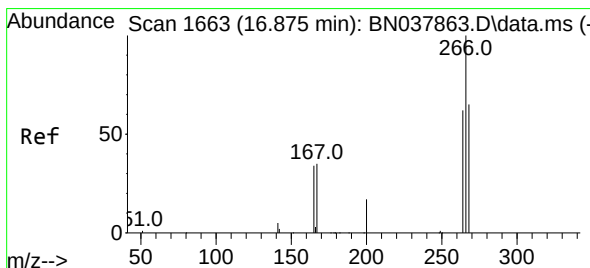
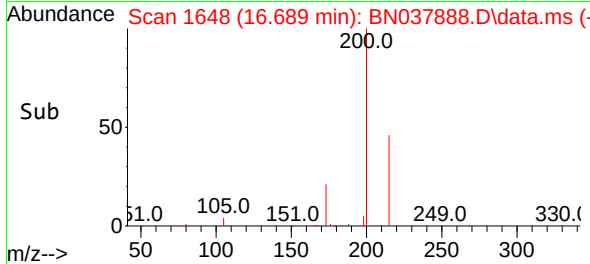
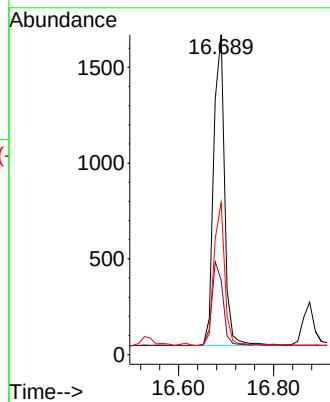
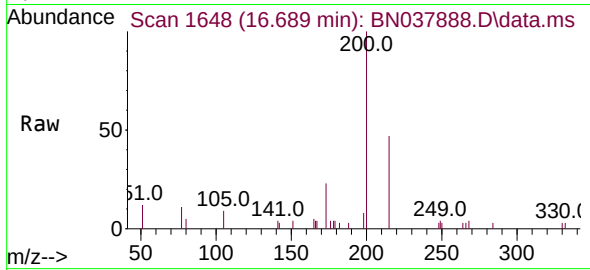




#23
Atrazine
Concen: 0.309 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

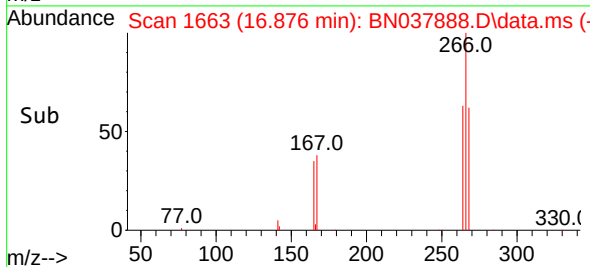
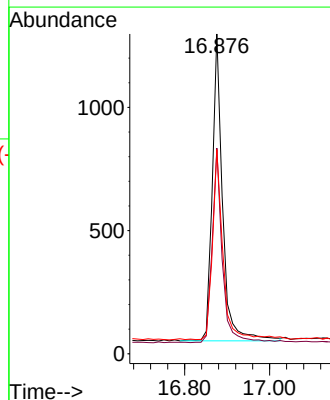
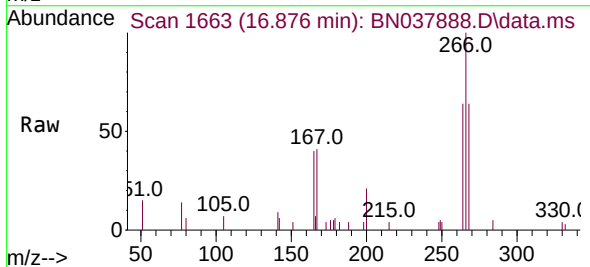
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

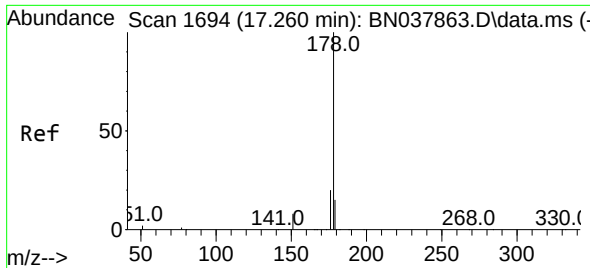
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.3	18.3	27.5
215	47.5	38.6	58.0



#24
Pentachlorophenol
Concen: 0.456 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.6	50.9	76.3
268	62.6	54.3	81.5

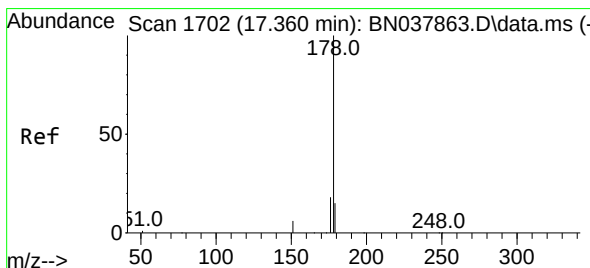
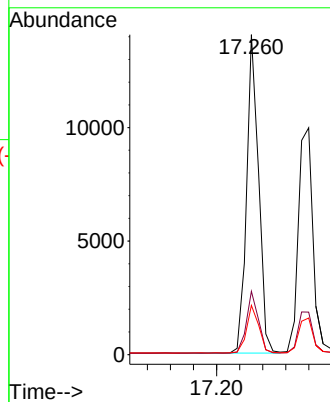
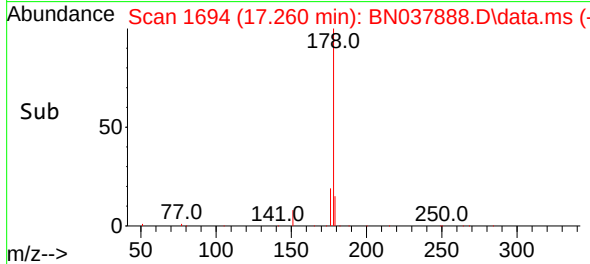
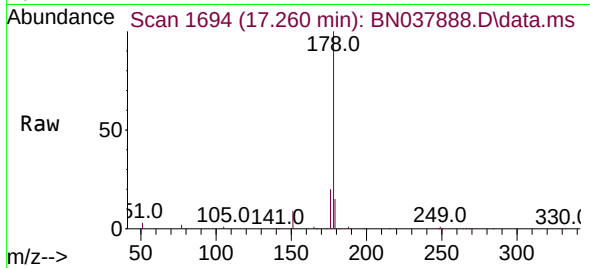




#25
Phenanthrene
Concen: 0.363 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

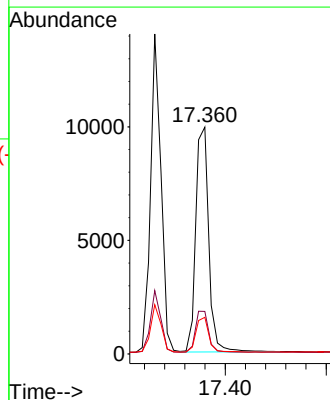
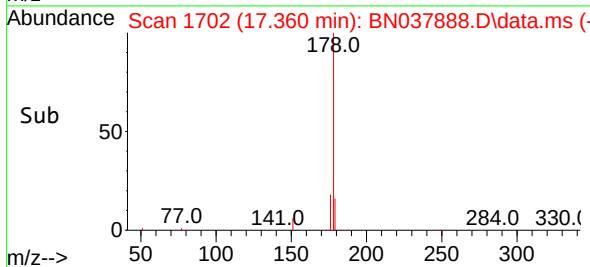
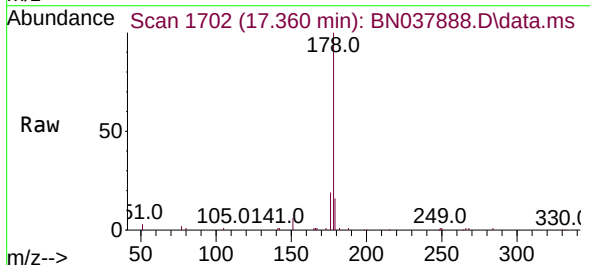
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

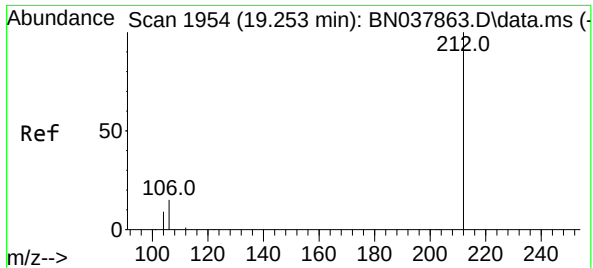
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.5	12.3	18.5



#26
Anthracene
Concen: 0.365 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.324 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

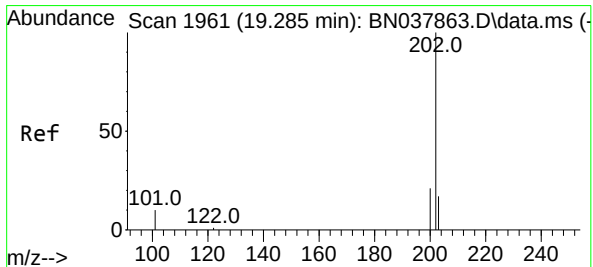
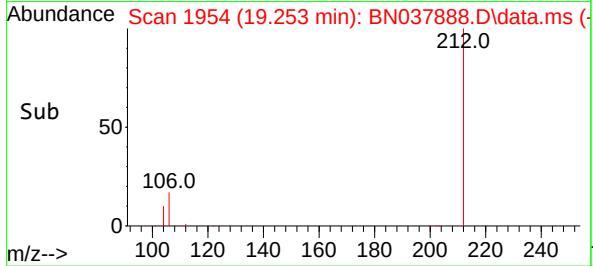
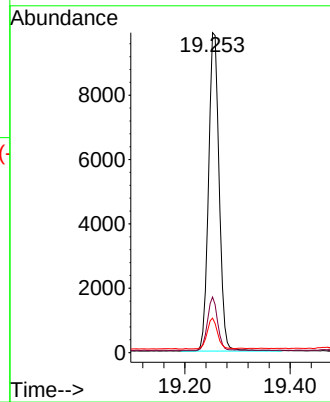
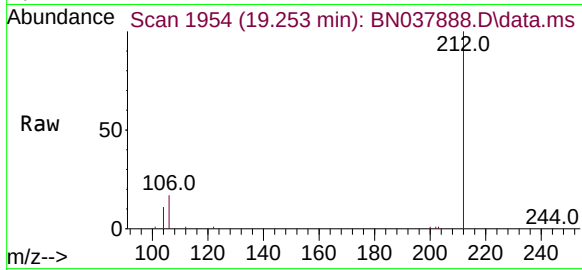
Tgt Ion:212 Resp: 13821

Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 9.4 7.4 11.0



#28

Fluoranthene

Concen: 0.323 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

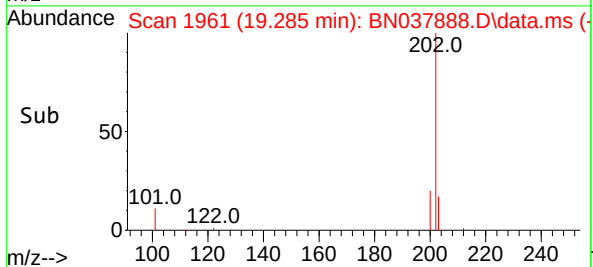
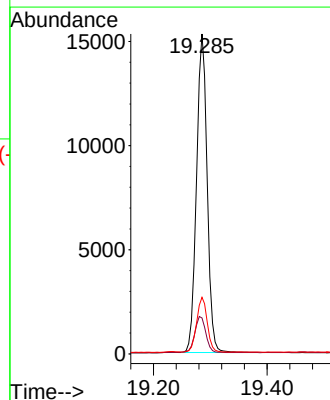
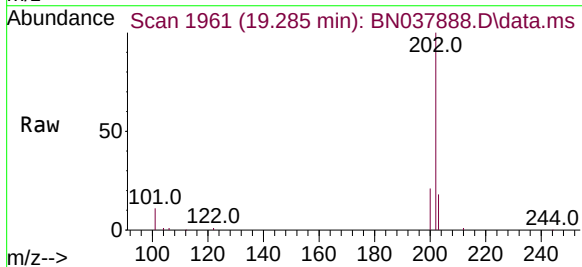
Tgt Ion:202 Resp: 19835

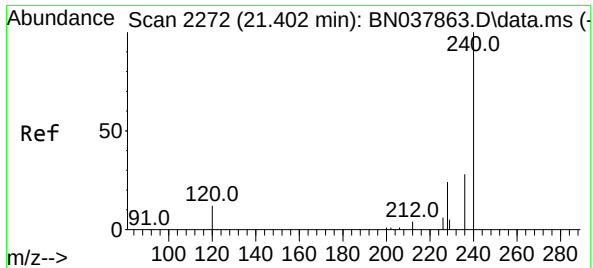
Ion Ratio Lower Upper

202 100

101 12.1 9.3 13.9

203 17.0 13.6 20.4

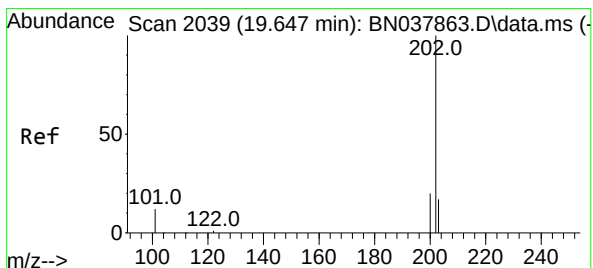
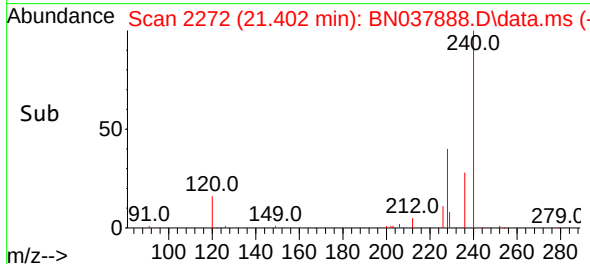
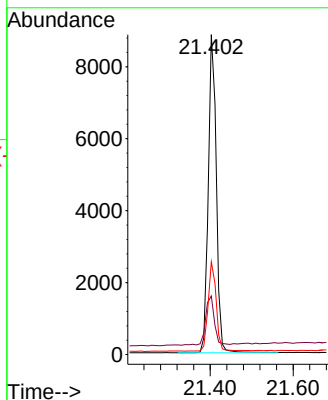
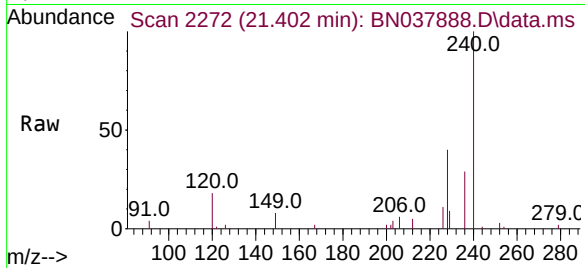




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

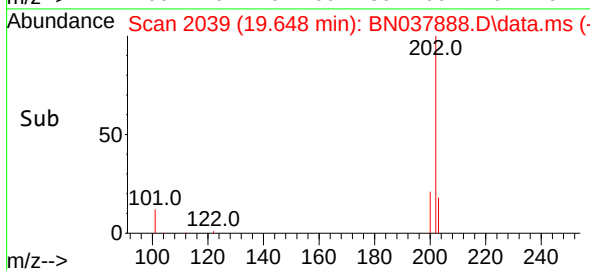
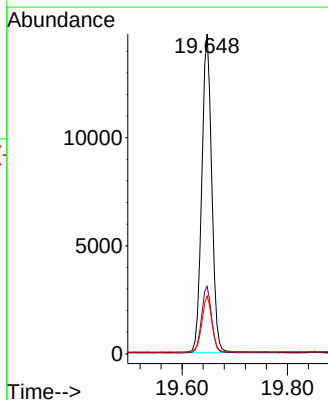
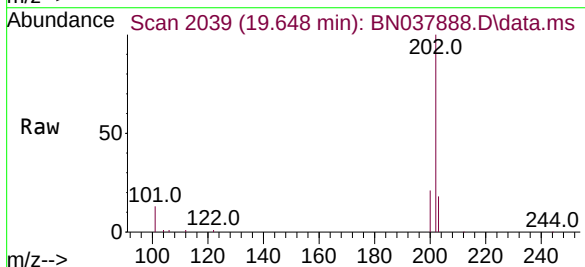
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

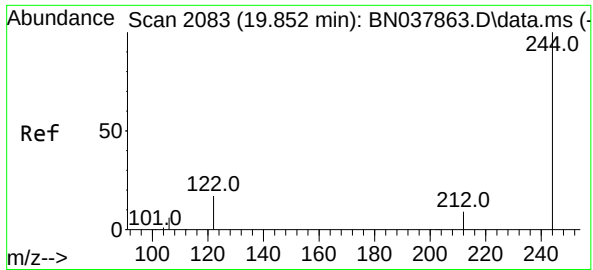
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	11.4	17.2#
236	29.0	23.0	34.6



#30
Pyrene
Concen: 0.415 ng
RT: 19.648 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4

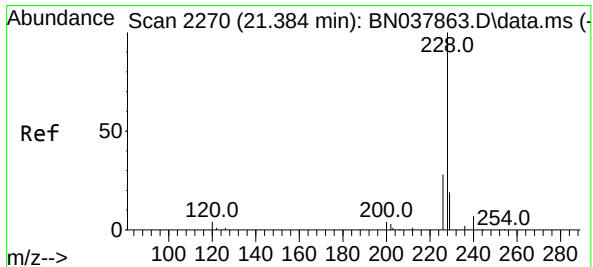
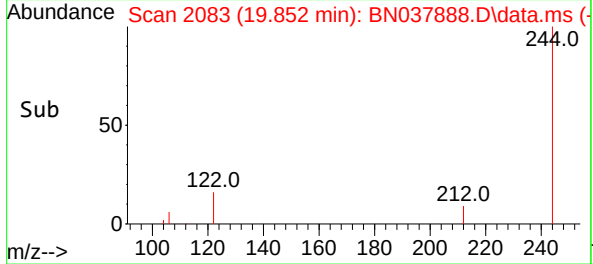
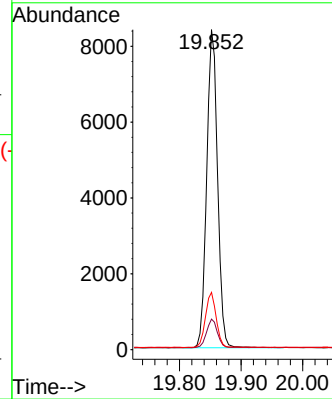
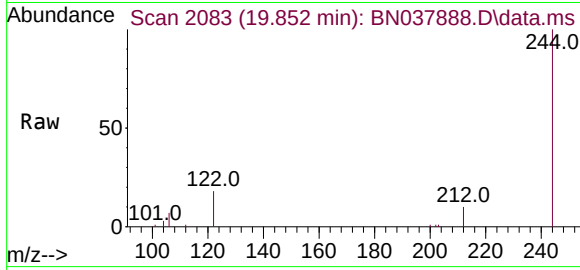




#31
Terphenyl-d14
Concen: 0.432 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

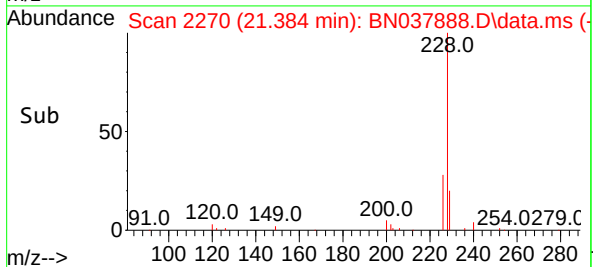
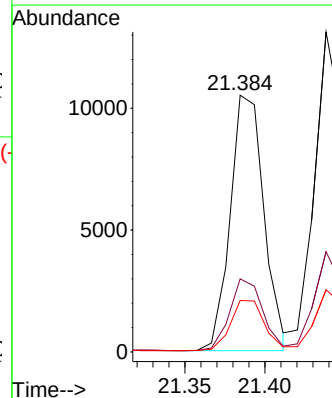
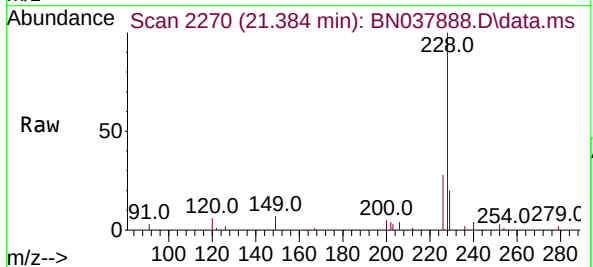
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

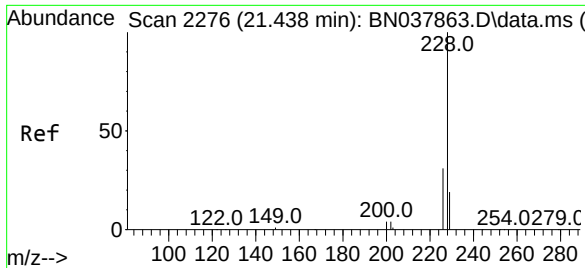
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.9	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.0	15.6	23.4





#33

Chrysene

Concen: 0.388 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

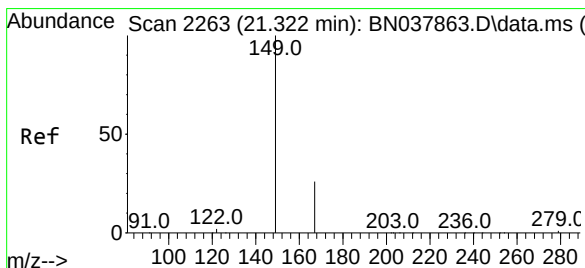
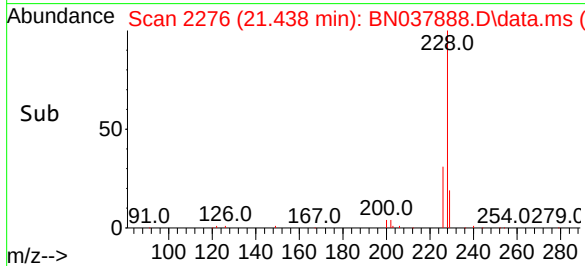
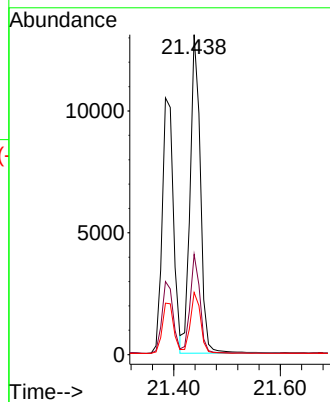
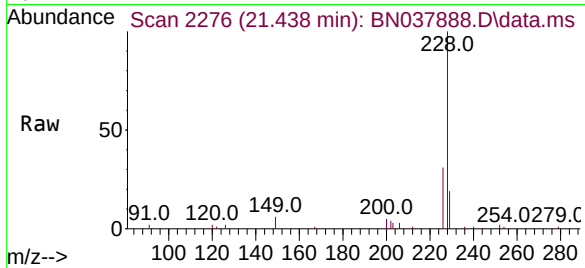
Tgt Ion:228 Resp: 17365

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.272 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

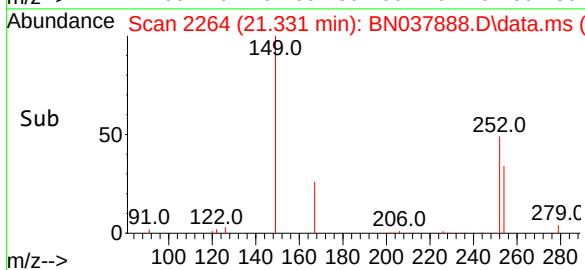
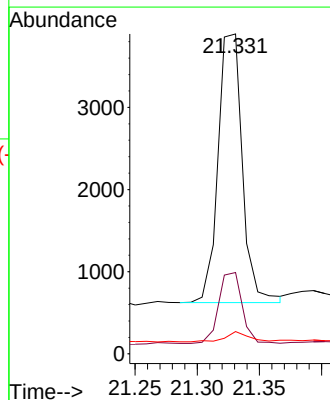
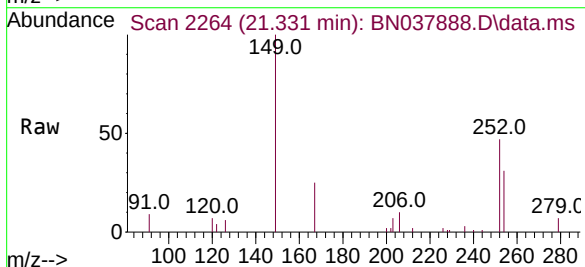
Tgt Ion:149 Resp: 4456

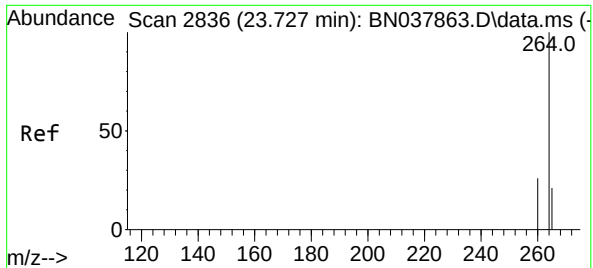
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#

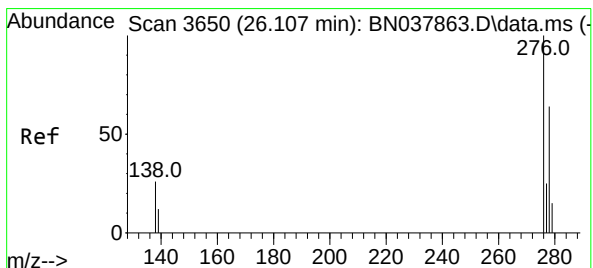
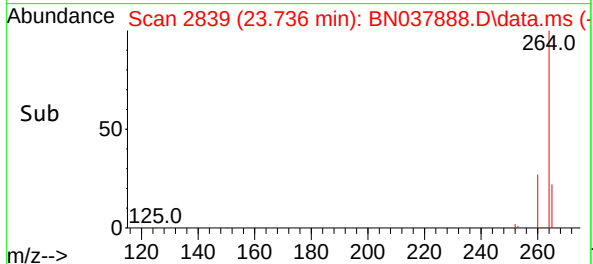
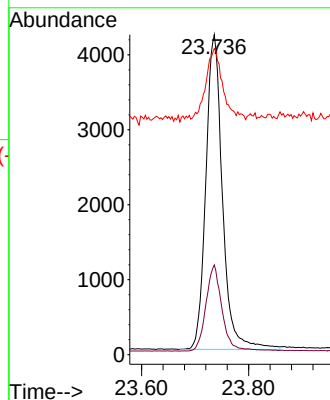
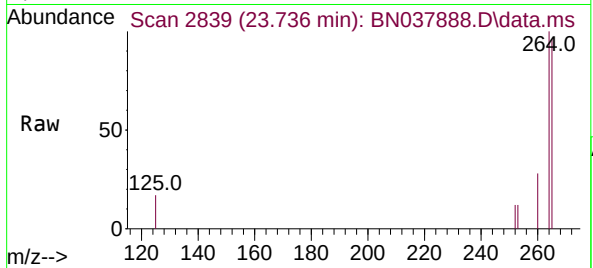




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

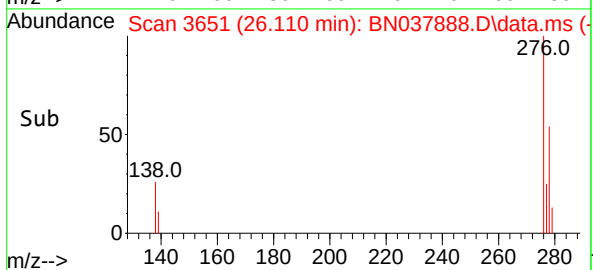
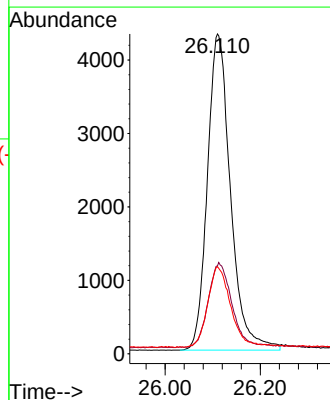
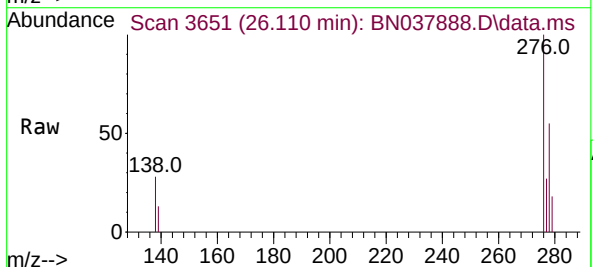
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

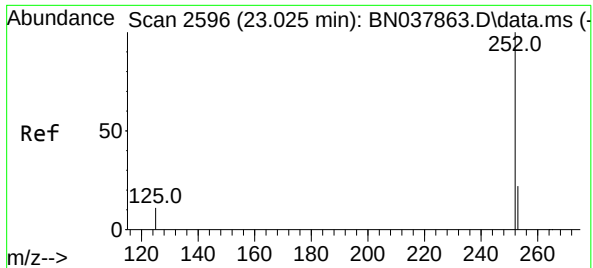
Tgt Ion	264	260	265
Resp:	9036		
Ion Ratio	100	28.0	95.6
Lower		21.5	53.8
Upper		32.3	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion	276	138	277
Resp:	14519		
Ion Ratio	100	26.9	25.1
Lower		21.4	20.3
Upper		32.0	30.5

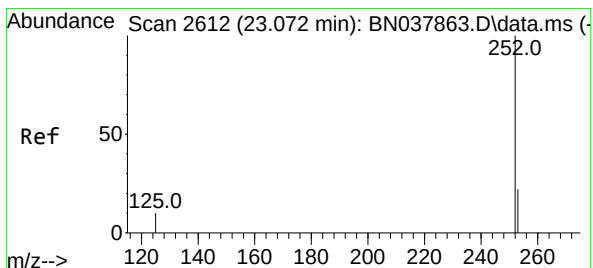
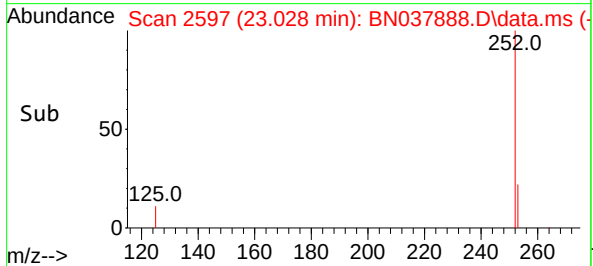
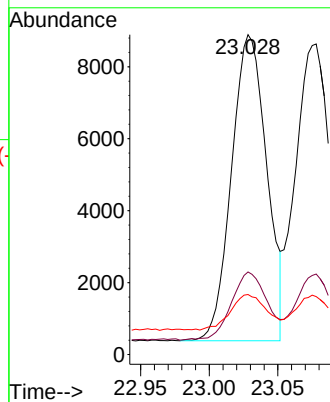
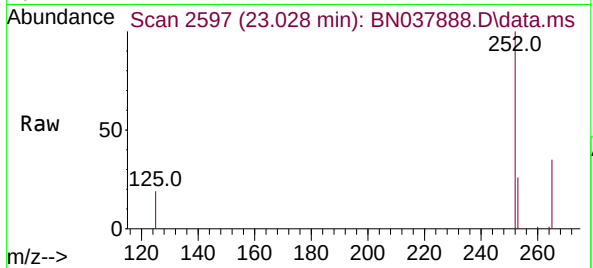




#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 23.028 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

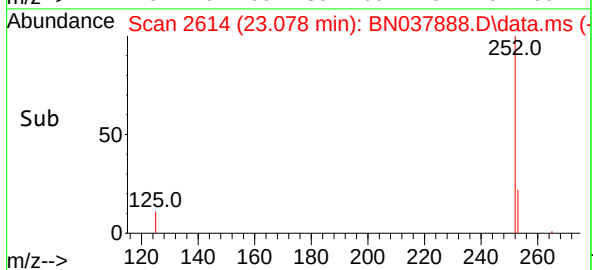
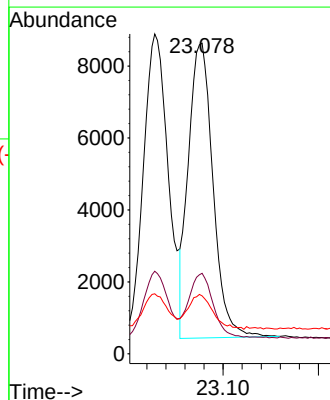
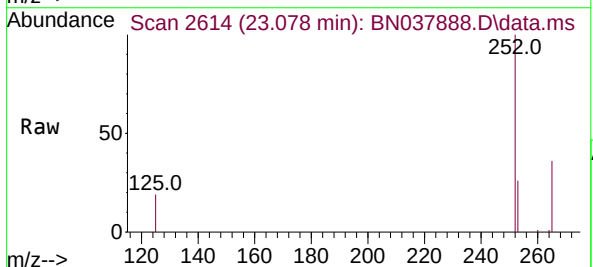
Instrument :
BNA_N
ClientSampleId :
PB169712BSD

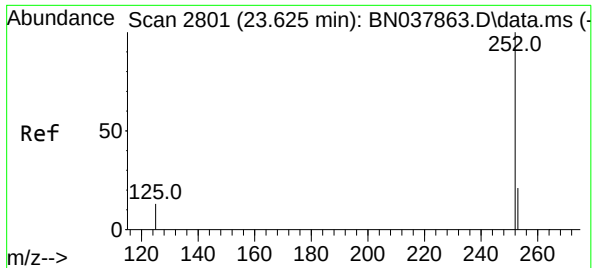
Tgt Ion:252 Resp: 15158
Ion Ratio Lower Upper
252 100
253 25.8 19.4 29.0
125 18.8 13.0 19.4



#38
Benzo(k)fluoranthene
Concen: 0.376 ng
RT: 23.078 min Scan# 2614
Delta R.T. 0.006 min
Lab File: BN037888.D
Acq: 25 Sep 2025 14:34

Tgt Ion:252 Resp: 14723
Ion Ratio Lower Upper
252 100
253 25.9 19.5 29.3
125 18.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD

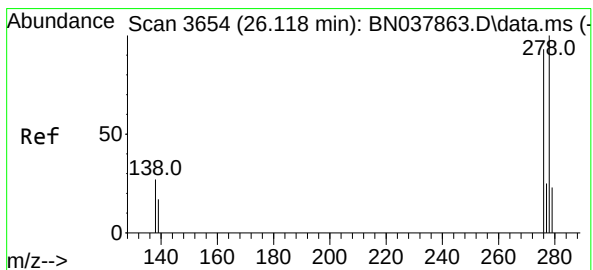
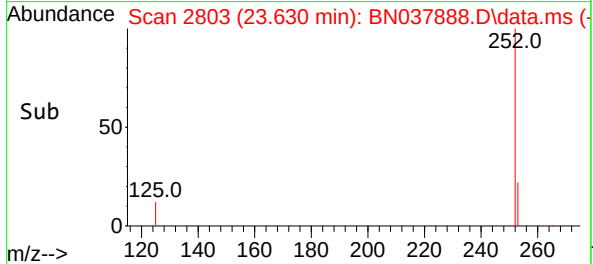
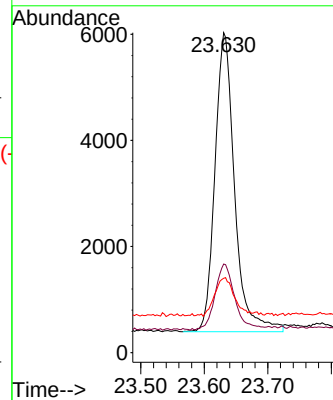
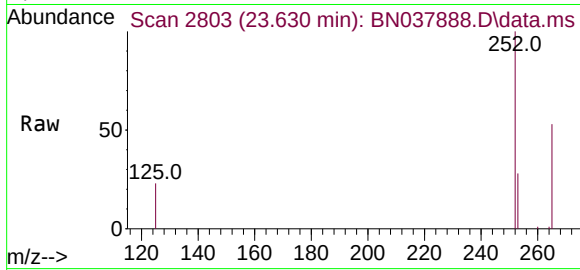
Tgt Ion:252 Resp: 12124

Ion Ratio Lower Upper

252 100

253 27.7 20.6 30.8

125 23.2 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.355 ng

RT: 26.127 min Scan# 3657

Delta R.T. 0.009 min

Lab File: BN037888.D

Acq: 25 Sep 2025 14:34

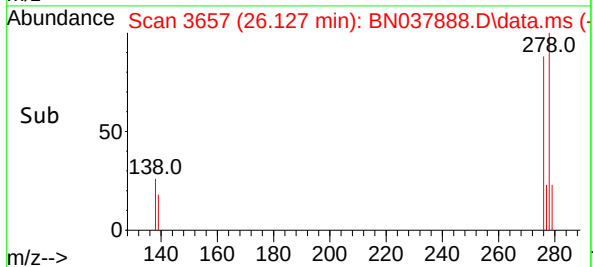
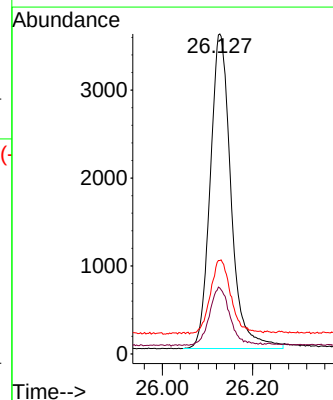
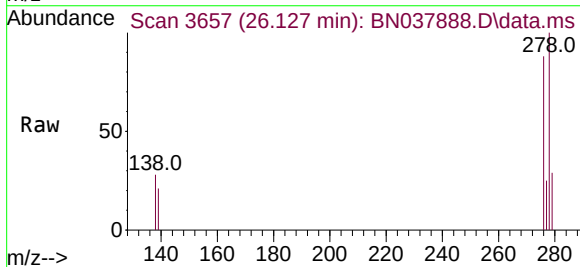
Tgt Ion:278 Resp: 11453

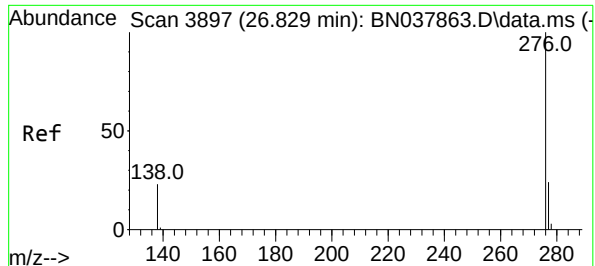
Ion Ratio Lower Upper

278 100

139 20.6 15.4 23.2

279 29.2 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.838 min Scan# 39

Delta R.T. 0.009 min

Lab File: BN037888.D

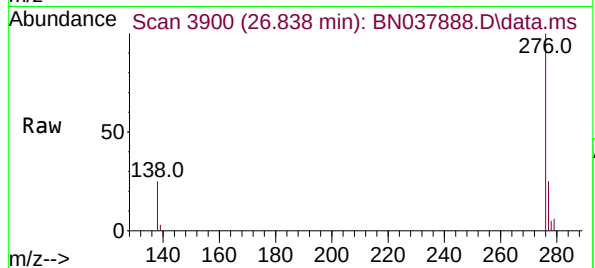
Acq: 25 Sep 2025 14:34

Instrument :

BNA_N

ClientSampleId :

PB169712BSD



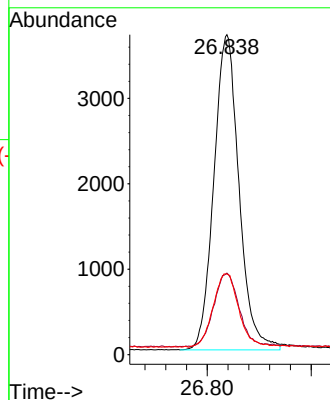
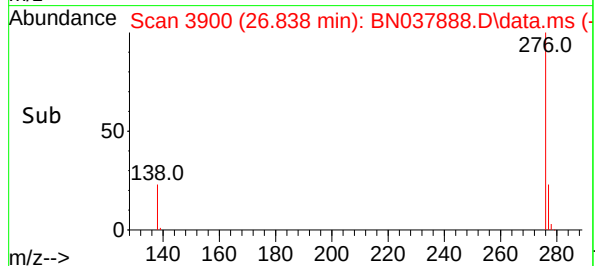
Tgt Ion:276 Resp: 12421

Ion Ratio Lower Upper

276 100

277 25.5 20.2 30.4

138 25.2 19.8 29.8





Manual Integration Report

Sequence:	BN092325	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	BN092425	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	BN092525	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848			
CCC		SP6846			
Internal Standard/PEM		SP6830,1ul/100ul sample			
ICV/I.BLK		SP6854			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037860.D	23 Sep 2025 11:33	RC/JU	Ok
2	SSTDIC0.1	BN037861.D	23 Sep 2025 12:13	RC/JU	Ok
3	SSTDIC0.2	BN037862.D	23 Sep 2025 12:49	RC/JU	Ok
4	SSTDIC0.4	BN037863.D	23 Sep 2025 13:25	RC/JU	Ok
5	SSTDIC0.8	BN037864.D	23 Sep 2025 14:02	RC/JU	Ok
6	SSTDIC1.6	BN037865.D	23 Sep 2025 14:38	RC/JU	Ok
7	SSTDIC3.2	BN037866.D	23 Sep 2025 15:15	RC/JU	Ok
8	SSTDIC5.0	BN037867.D	23 Sep 2025 15:51	RC/JU	Ok
9	SSTDICV0.4	BN037868.D	23 Sep 2025 16:28	RC/JU	Ok
10	PB169743BL	BN037869.D	23 Sep 2025 17:42	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM
SubDirectory	BN092425	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037870.D	24 Sep 2025 09:15	RC/JU	Ok
2	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54	RC/JU	Ok
3	PB169712BL	BN037872.D	24 Sep 2025 10:32	RC/JU	Ok
4	Q3015-05	BN037873.D	24 Sep 2025 11:08	RC/JU	Dilution
5	Q3015-05DL	BN037874.D	24 Sep 2025 13:36	RC/JU	Ok
6	Q3015-21	BN037875.D	24 Sep 2025 14:12	RC/JU	Dilution
7	Q3015-21DL	BN037876.D	24 Sep 2025 15:05	RC/JU	Ok
8	Q3015-08	BN037877.D	24 Sep 2025 15:48	RC/JU	Dilution
9	Q3015-08DL	BN037878.D	24 Sep 2025 16:58	RC/JU	Ok
10	PB169712BS	BN037879.D	24 Sep 2025 17:39	RC/JU	Not Ok
11	PB169712BSD	BN037880.D	24 Sep 2025 18:16	RC/JU	Not Ok
12	SSTDCCC0.4	BN037881.D	24 Sep 2025 18:52	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037882.D	25 Sep 2025 10:52	RC/JU	Ok
2	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31	RC/JU	Ok
3	PB169793BL	BN037884.D	25 Sep 2025 12:07	RC/JU	Ok
4	PB169712BS	BN037885.D	25 Sep 2025 12:44	RC/JU	Ok
5	PB169793BS	BN037886.D	25 Sep 2025 13:21	RC/JU	Ok
6	PB169793BSD	BN037887.D	25 Sep 2025 13:57	RC/JU	Ok
7	PB169712BSD	BN037888.D	25 Sep 2025 14:34	RC/JU	Ok
8	Q3141-02	BN037889.D	25 Sep 2025 15:11	RC/JU	Ok
9	Q3141-03	BN037890.D	25 Sep 2025 15:48	RC/JU	Ok
10	Q3141-05	BN037891.D	25 Sep 2025 16:24	RC/JU	Ok
11	Q3141-07	BN037892.D	25 Sep 2025 17:01	RC/JU	Ok
12	Q3142-01	BN037893.D	25 Sep 2025 17:38	RC/JU	Ok
13	Q3142-02	BN037894.D	25 Sep 2025 18:15	RC/JU	Ok
14	Q3156-02	BN037895.D	25 Sep 2025 18:51	RC/JU	Ok
15	Q3156-03	BN037896.D	25 Sep 2025 19:28	RC/JU	Ok
16	Q3156-04	BN037897.D	25 Sep 2025 20:05	RC/JU	Ok
17	Q3156-05	BN037898.D	25 Sep 2025 20:41	RC/JU	Dilution
18	Q3156-06	BN037899.D	25 Sep 2025 21:18	RC/JU	Dilution
19	Q3156-07	BN037900.D	25 Sep 2025 21:54	RC/JU	Dilution
20	SSTDCCC0.4	BN037901.D	25 Sep 2025 22:31	RC/JU	Ok
21	DFTPP	BN037902.D	25 Sep 2025 23:47	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27	RC/JU	Ok
23	PB169794BL	BN037904.D	26 Sep 2025 01:03	RC/JU	Ok
24	PB169794BS	BN037905.D	26 Sep 2025 01:40	RC/JU	Ok
25	PB169794BSD	BN037906.D	26 Sep 2025 02:16	RC/JU	Ok
26	Q3156-08	BN037907.D	26 Sep 2025 02:52	RC/JU	Ok
27	Q3156-09	BN037908.D	26 Sep 2025 03:29	RC/JU	Ok
28	Q3156-10	BN037909.D	26 Sep 2025 04:05	RC/JU	Ok
29	Q3156-11	BN037910.D	26 Sep 2025 04:41	RC/JU	Ok
30	Q3156-12	BN037911.D	26 Sep 2025 05:18	RC/JU	Ok
31	Q3156-13	BN037912.D	26 Sep 2025 05:54	RC/JU	Ok
32	Q3156-14	BN037913.D	26 Sep 2025 06:30	RC/JU	Ok
33	Q3156-16	BN037914.D	26 Sep 2025 07:06	RC/JU	Ok
34	Q3156-17	BN037915.D	26 Sep 2025 07:43	RC/JU	Ok
35	Q3156-18	BN037916.D	26 Sep 2025 08:19	RC/JU	Ok
36	Q3156-19	BN037917.D	26 Sep 2025 08:55	RC/JU	Ok
37	Q3156-20	BN037918.D	26 Sep 2025 09:32	RC/JU	Ok
38	Q3156-21	BN037919.D	26 Sep 2025 10:08	RC/JU	Ok
39	Q3156-23	BN037920.D	26 Sep 2025 10:45	RC/JU	Ok
40	SSTDCCC0.4	BN037921.D	26 Sep 2025 11:21	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037860.D	23 Sep 2025 11:33		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	Compound#14,24 removed from 5.0 ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN092325	BN037868.D	23 Sep 2025 16:28		RC/JU	Ok
10	PB169743BL	PB169743BL	BN037869.D	23 Sep 2025 17:42	END CCC missing, Analyzed for Contamination check.	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092425

Review By	Rahul	Review On	9/25/2025 2:38:56 PM
Supervise By	Jagrut	Supervise On	9/25/2025 2:51:41 PM
SubDirectory	BN092425	HP Acquire Method	BNA_N, 8270_HP Processing Method bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037870.D	24 Sep 2025 09:15		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037871.D	24 Sep 2025 09:54		RC/JU	Ok
3	PB169712BL	PB169712BL	BN037872.D	24 Sep 2025 10:32		RC/JU	Ok
4	Q3015-05	WP0925-PT-BN-WP	BN037873.D	24 Sep 2025 11:08	PT Sample, Need 100X Dilution	RC/JU	Dilution
5	Q3015-05DL	WP0925-PT-BN-WPDL	BN037874.D	24 Sep 2025 13:36		RC/JU	Ok
6	Q3015-21	WP0925-RR-PAH-WP	BN037875.D	24 Sep 2025 14:12	PT Sample, Need 10X Dilution	RC/JU	Dilution
7	Q3015-21DL	WP0925-RR-PAH-WPDL	BN037876.D	24 Sep 2025 15:05		RC/JU	Ok
8	Q3015-08	WP0925-PT-ACIDS-WP	BN037877.D	24 Sep 2025 15:48	PT Sample, Need 50X Dilution	RC/JU	Dilution
9	Q3015-08DL	WP0925-PT-ACIDS-WPDL	BN037878.D	24 Sep 2025 16:58		RC/JU	Ok
10	PB169712BS	PB169712BS	BN037879.D	24 Sep 2025 17:39	Internal Standard Fail, Use for DOD projects	RC/JU	Not Ok
11	PB169712BSD	PB169712BSD	BN037880.D	24 Sep 2025 18:16	Use for DOD projects	RC/JU	Not Ok
12	SSTDCCC0.4	SSTDCCC0.4EC	BN037881.D	24 Sep 2025 18:52		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037882.D	25 Sep 2025 10:52		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037883.D	25 Sep 2025 11:31		RC/JU	Ok
3	PB169793BL	PB169793BL	BN037884.D	25 Sep 2025 12:07		RC/JU	Ok
4	PB169712BS	PB169712BS	BN037885.D	25 Sep 2025 12:44		RC/JU	Ok
5	PB169793BS	PB169793BS	BN037886.D	25 Sep 2025 13:21		RC/JU	Ok
6	PB169793BSD	PB169793BSD	BN037887.D	25 Sep 2025 13:57		RC/JU	Ok
7	PB169712BSD	PB169712BSD	BN037888.D	25 Sep 2025 14:34		RC/JU	Ok
8	Q3141-02	BP-VPB-184-EB-20250	BN037889.D	25 Sep 2025 15:11		RC/JU	Ok
9	Q3141-03	BP-VPB-184-GW-60-62	BN037890.D	25 Sep 2025 15:48		RC/JU	Ok
10	Q3141-05	BP-VPB-184-GW-150-1	BN037891.D	25 Sep 2025 16:24		RC/JU	Ok
11	Q3141-07	BP-VPB-184-GW-220-2	BN037892.D	25 Sep 2025 17:01		RC/JU	Ok
12	Q3142-01	RW8-SP100-20250918	BN037893.D	25 Sep 2025 17:38		RC/JU	Ok
13	Q3142-02	RW8-SP303-20250918	BN037894.D	25 Sep 2025 18:15		RC/JU	Ok
14	Q3156-02	RE10-MW01S-202509	BN037895.D	25 Sep 2025 18:51		RC/JU	Ok
15	Q3156-03	RE131D3-20250918	BN037896.D	25 Sep 2025 19:28		RC/JU	Ok
16	Q3156-04	TT190D1-20250918	BN037897.D	25 Sep 2025 20:05		RC/JU	Ok
17	Q3156-05	RE132D2-20250918	BN037898.D	25 Sep 2025 20:41	Need 2X Dilution	RC/JU	Dilution
18	Q3156-06	RE132D4-20250918	BN037899.D	25 Sep 2025 21:18	Need 2X Dilution	RC/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3156-07	TT189D2-20250918	BN037900.D	25 Sep 2025 21:54	Need 2X Dilution	RC/JU	Dilution
20	SSTDCCC0.4	SSTDCCC0.4EC	BN037901.D	25 Sep 2025 22:31		RC/JU	Ok
21	DFTPP	DFTPP	BN037902.D	25 Sep 2025 23:47		RC/JU	Ok
22	SSTDCCC0.4	SSTDCCC0.4	BN037903.D	26 Sep 2025 00:27		RC/JU	Ok
23	PB169794BL	PB169794BL	BN037904.D	26 Sep 2025 01:03		RC/JU	Ok
24	PB169794BS	PB169794BS	BN037905.D	26 Sep 2025 01:40		RC/JU	Ok
25	PB169794BSD	PB169794BSD	BN037906.D	26 Sep 2025 02:16		RC/JU	Ok
26	Q3156-08	TT149I1-20250918	BN037907.D	26 Sep 2025 02:52		RC/JU	Ok
27	Q3156-09	RE132D3-20250918	BN037908.D	26 Sep 2025 03:29		RC/JU	Ok
28	Q3156-10	TT180D1-20250918	BN037909.D	26 Sep 2025 04:05		RC/JU	Ok
29	Q3156-11	RE132D1-20250918	BN037910.D	26 Sep 2025 04:41		RC/JU	Ok
30	Q3156-12	TT190D2-20250918	BN037911.D	26 Sep 2025 05:18		RC/JU	Ok
31	Q3156-13	EB02-20250918	BN037912.D	26 Sep 2025 05:54		RC/JU	Ok
32	Q3156-14	EB03-20250918	BN037913.D	26 Sep 2025 06:30		RC/JU	Ok
33	Q3156-16	RW9-MW01D1-202509	BN037914.D	26 Sep 2025 07:06		RC/JU	Ok
34	Q3156-17	TT191D2-20250918	BN037915.D	26 Sep 2025 07:43		RC/JU	Ok
35	Q3156-18	RW9-MW01S-2025091	BN037916.D	26 Sep 2025 08:19		RC/JU	Ok
36	Q3156-19	TT191D1-20250918	BN037917.D	26 Sep 2025 08:55		RC/JU	Ok
37	Q3156-20	DUP09-20250918	BN037918.D	26 Sep 2025 09:32		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092525

Review By	yogesh	Review On	9/26/2025 4:55:41 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:58:13 AM
SubDirectory	BN092525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q3156-21	RW9-MW01D3-202509	BN037919.D	26 Sep 2025 10:08		RC/JU	Ok
39	Q3156-23	RW9-MW01D2-202509	BN037920.D	26 Sep 2025 10:45		RC/JU	Ok
40	SSTDCCC0.4	SSTDCCC0.4EC	BN037921.D	26 Sep 2025 11:21		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 09/16/2025

Matrix : Water **Extraction Start Time :** 09:39

Weigh By: N/A **Extraction By:** RJ **Extraction End Date :** 09/16/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 14:00

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: N/A **Hood ID:** 4,5,6,7 **Supervisor By :** ritesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3937
Baked Na2SO4	N/A	EP2639
H2SO4 1:1	N/A	EP2610
10N NaOH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/16/25	RJ (152-146)	Rc/svpc
14:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/16/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169712BL	SBLK712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169712BS	SLCS712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
PB169712BS D	SLCSD712	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			3
Q3015-05	WP0925-PT-BN-WP	SVOCMS Group3	1000	6	ritesh	Evelyn	1			4
Q3015-08	WP0925-PT-ACIDS-WP	SVOCMS Group4	1000	6	ritesh	Evelyn	1			5
Q3015-21	WP0925-RR-PAH-WP	SVOCMS Group5	1000	6	ritesh	Evelyn	1			6
Q3097-10	RE120D3-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		7
Q3097-11	RE105D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		8
Q3097-12	DUP04-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		9
Q3097-13	DUP05-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		10
Q3097-14	RE105D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		11
Q3097-15	RE117D2-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		12
Q3097-19	RE120D1-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		13
Q3097-20	DUP06-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		14
Q3097-21	RE120D2-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		15
Q3097-22	RE134D1-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		16
Q3097-23	RE134D4-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		SEP-1
Q3097-24	RE134D2-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		2
Q3097-25	RE134D3-20250912	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		3
Q3097-26	EB01-20250911	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4

* Extracts relinquished on the same date as received.

RJ
9/16

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3096

WorkList ID : 191898

Department : Extraction

Date : 09-16-2025 09:32:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3015-05	WP0925-PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-08	WP0925-PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3015-21	WP0925-RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	09/02/2025	8270-Modified
Q3097-10	RE120D3-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-11	RE105D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-12	DUP04-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-13	DUP05-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-14	RE105D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-15	RE117D2-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/11/2025	8270-Modified
Q3097-19	RE120D1-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-20	DUP06-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-21	RE120D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-22	RE134D1-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-23	RE134D4-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-24	RE134D2-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-25	RE134D3-20250912	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified
Q3097-26	EB01-20250911	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D41	09/12/2025	8270-Modified

Date/Time 09/16/25 9:33
 Raw Sample Received by: RJ LELI-1060
 Raw Sample Relinquished by: JSR

Date/Time 09/16/25 10:00
 Raw Sample Received by: JSR
 Raw Sample Relinquished by: RJ LELI-1060

Prep Standard - Chemical Standard Summary

Order ID : Q3015
Test : SVOCMS Group5
Prepbatch ID : PB169712,
Sequence ID/Qc Batch ID: BN092425,BN092525,

Standard ID :
EP2609,EP2610,EP2639,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3973,M6157,S10105,S 11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W 3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SC ALE_2 (EX-SC-2)	None	Evelyn Huang 09/12/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

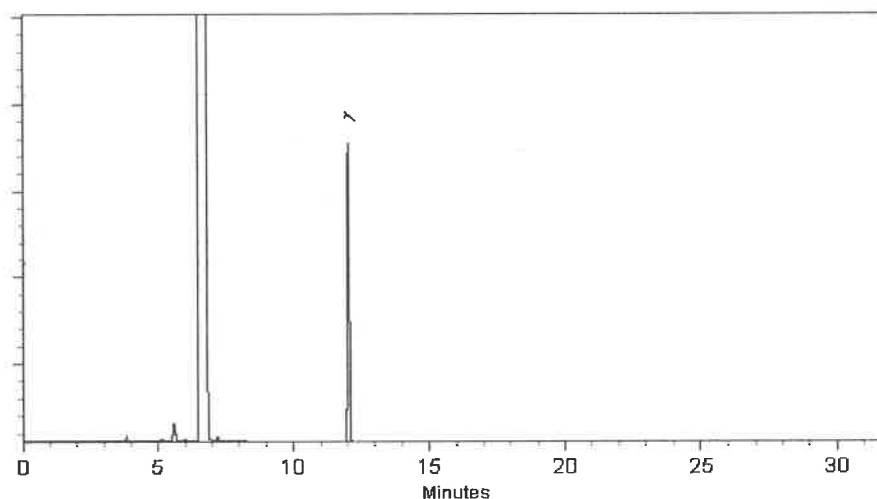
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

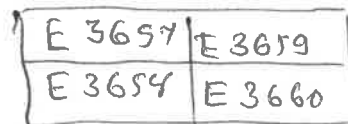
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.





**PRODUCTOS
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www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

J. Croak

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

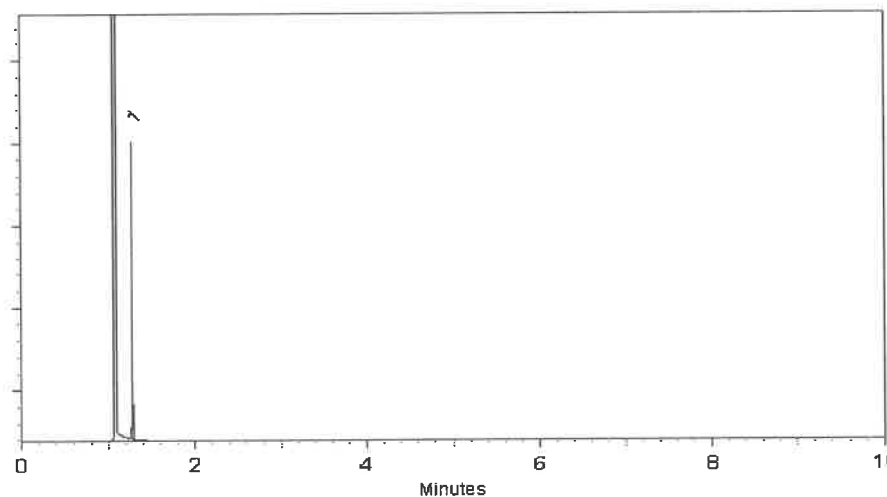
FID

Split Vent:

100 mL/min.

Inj. Vol

1µL



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

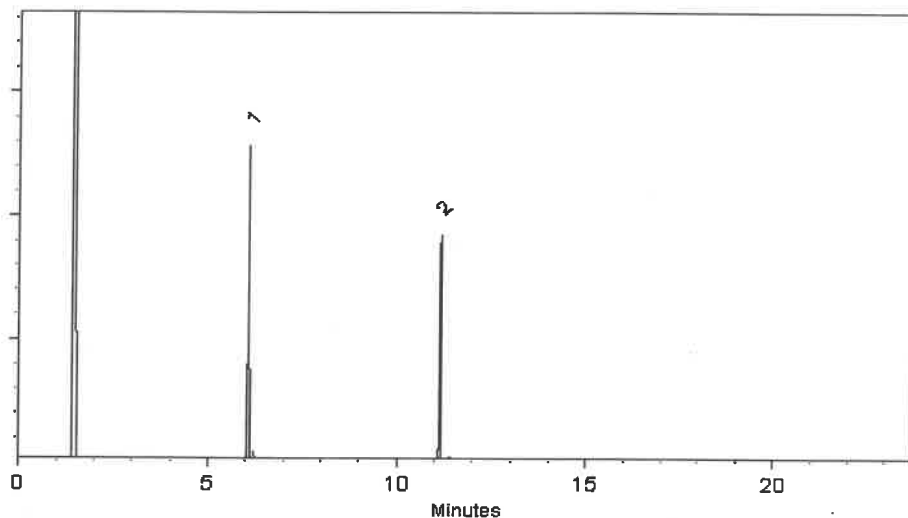
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

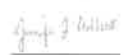


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Santa Rosa, CA 95403

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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

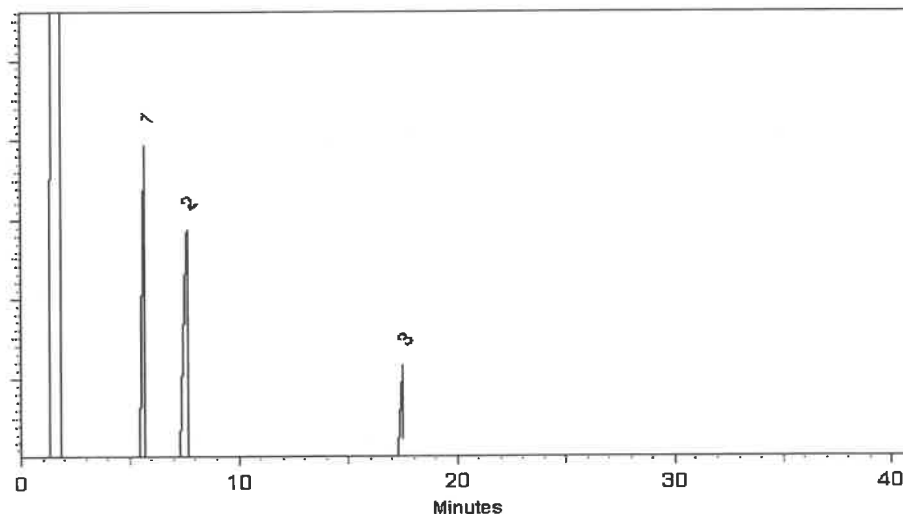
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

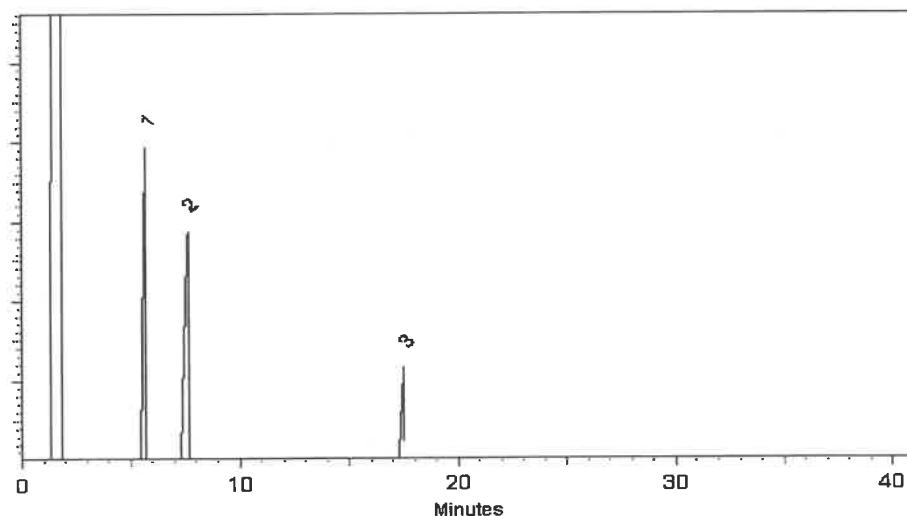
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

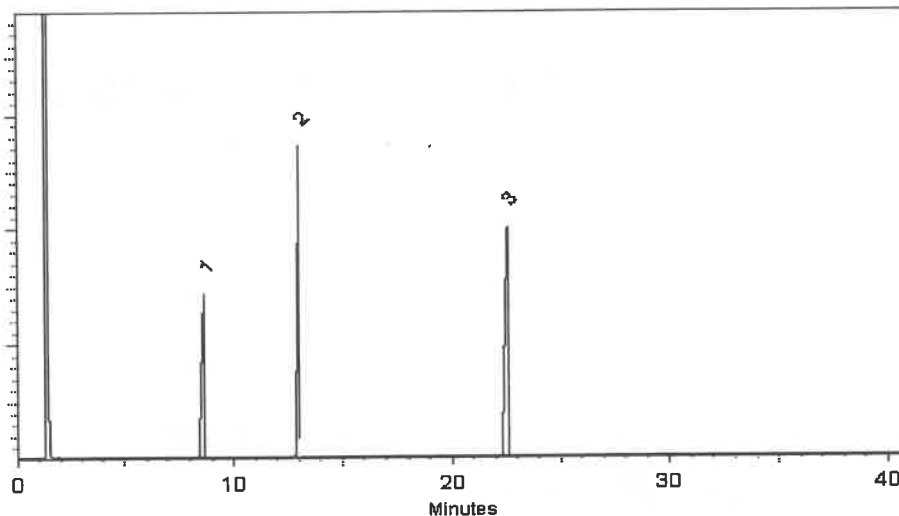
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

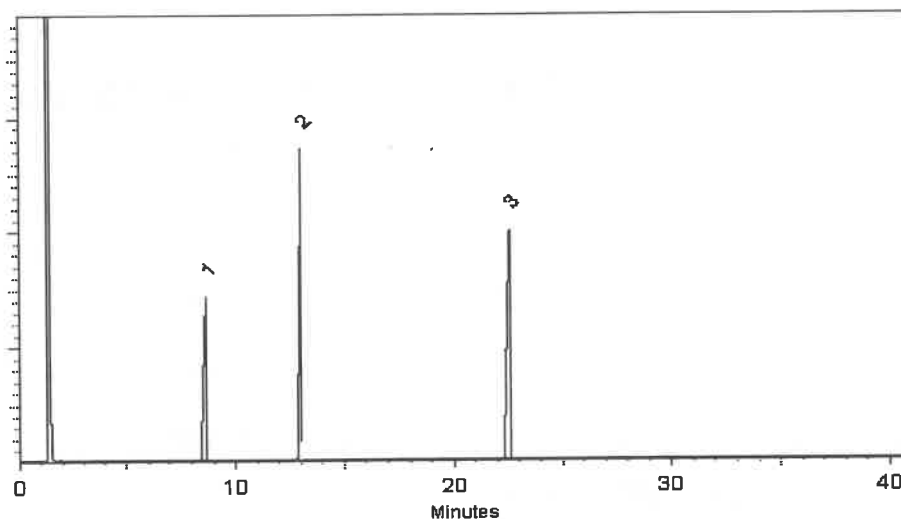
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

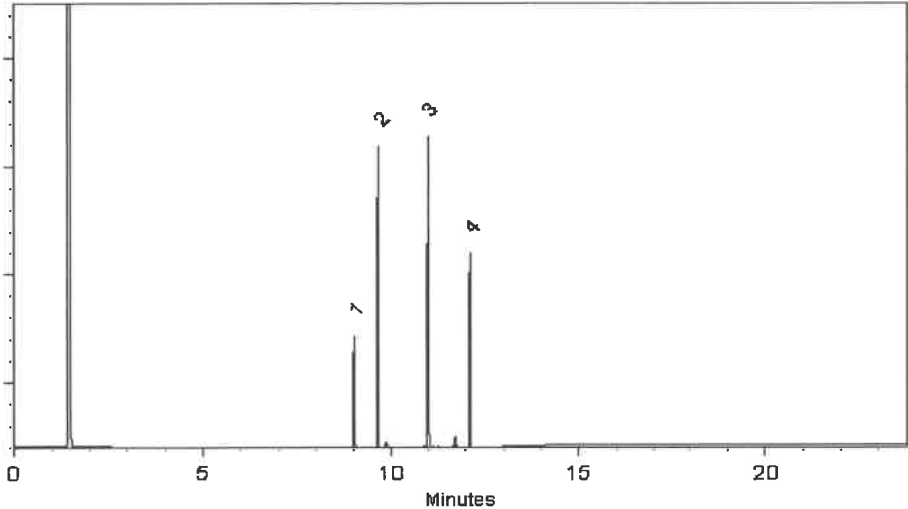
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

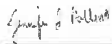
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsandsale

Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: *ST* 9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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Date	Order #
09/02/2025	333290



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/4/2025
9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98



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Date	Order #
09/05/2025	340092



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/9/2025 12:20

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312